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PREMIER BUILDING ASSOCIATION.



CENTENNIAL INTERNATIONAL EXHIBITION,

MELBOURNE, 1888-9.

OPENED 1st AUGUST, 1888.

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OF THE

EXHIBITS,

WITH

INTRODUCTORY NOTICES

OF THE

COUNTRIES EXHIBITING.

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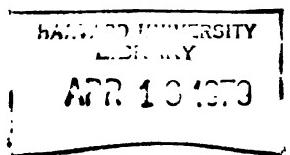
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PREFATORY NOTE.

The scope and purpose of the Exhibition, whose contents are described in the following pages, are clearly indicated by its official designation. As distinguished from the display of international exhibits which took place under the same roof in 1880-81, it is not promoted with the view of bringing a monopoly or even a preponderance of advantage to any single colony. While all the leading nations of the world are cordially invited to submit their productions for public competition and inspection, the Exhibition, which covers no less than 35½ acres, derives pre-eminently an Australian character from its title, which directly points to the peculiar conditions under which it has been called into existence. It is commemorative of the first permanent British settlement ever established on this continent. That the immigrants who came from Great Britain under Captain Arthur Phillip, a century ago, should have disembarked at one part of Australia rather than at another must be regarded as simply accidental; and so the selection of Melbourne for the honour of celebrating, in a specific form, the centenary of their arrival is equally due to a contingency over which the parent colony of New South Wales—in which the Exhibition would naturally have been held under ordinary circumstances—had no control. We refer to the unfortunate destruction by fire, some years ago, of the spacious Exhibition Building that was erected in Sydney.

Deprived, from that cause, of the necessary convenience for carrying out the object contemplated in the neighbouring colony, the New South Wales Government was respectfully approached by the Victorian Premier in November, 1886, with the proposal that the corresponding structure in Melbourne should be utilised for a purpose in which Australia was interested. As might be expected, Sir Patrick Jennings, then head of the administration in the sister colony, accepted the offer of Mr. Gillies in the friendly spirit by which it was prompted. Victoria has cheerfully assumed the financial responsibility connected with the undertaking, and her prominent citizens have esteemed it a privilege to devote time, thought, and energy without stint to its successful consummation; bearing in mind, however, that the present show of the world's arts, wares, and inventions forms an integral part of the Centennial festivities which opened in Sydney in January last.

At the same time, the Exhibition serves as a useful landmark in the march of Australian progress. The exhibits contributed by other sections of the Empire, and by foreign countries, enable us to measure our industrial shortcomings, or, as the case may be, the extent of improvement which has been attained, both in the quality and quantity of the commodities produced in the country. An opportunity is afforded of comparing our mineral, agricultural, pastoral, manufacturing, and artistic development with that of older and more cultured communities in Europe, Asia, and America. Thus mistakes which may have inadvertently been committed in our educational, aesthetic, economic, and industrial methods may be corrected, while we are incited to aim at still higher standards of excellence. If the result of such a comparison

of products should be that employers and employed in the Australian colonies, who are engaged in pursuits requiring technical skill and experience, are inspired with what Mr. Goschen, in a recent address before the Aberdeen University, describes as a more intense "intellectual interest" in their respective handicrafts, the care and toil expended on the Exhibition by its promoters will in no small degree be rewarded.

In sober truth, during the past century, and especially in the last thirty-seven years, the rate at which the resources of Australia have been developed is marvellous. When the Exhibition of 1851 was held in London, the whole continent was represented only by a few specimens of ores and cereals, a few blocks of timber, and a case or two of wool. When that great pioneer of mammoth international fairs was opened, the only habitation on the site of the present town of Ballarat was a shepherd's hut, built of slabs of wood and roofed with bark; and, taking that dwelling as a centre with a radius of forty miles round it, the number of inhabitants did not exceed five hundred. At the beginning of the same year Victoria was not as yet erected into an independent colony, or even known by its present name. The white population of the entire country, from the Gulf of Carpentaria to Wilson's Promontory, and from Perth to Brisbane, did not much exceed 240,000, and the trade only amounted to about £6,000,000 per annum. Now, the six colonies of the group have an estimated population of 3,000,000, with annual exports and imports—exclusive of New Zealand—amounting to £110,000,000, one-half of the business represented by that large sum being done with Great Britain. Their shipping reaches close upon 12,000,000 tons; their aggregate public revenues are over £20,000,000; and the high *status* of their credit in the London market is shown by the fact that British creditors have trusted their Governments with loans amounting to £123,000,000. Numerous borough loans and private English mortgage and shareholding investments are also to be considered. At the close of 1886 the collective railways of Australia, open and in course of construction, covered 8880 miles. The length of electric telegraph wires in operation throughout the six colonies is about 60,000 miles; and their postal revenues amount to £900,000. The number of acres of Crown land alienated, or in process of alienation, is set down at 92,000,000, against 1,808,724,000 acres neither alienated nor in process of alienation. The approximate number of acres under tillage is 7,000,000 acres. The cereal crops are at present estimated at 900,000 bushels, in addition to 960,000 tons of hay and 340,000 tons of potatoes. The grand total of their live stock includes 1,200,000 horses, 7,000,000 cattle, 70,000,000 sheep, and 880,000 pigs. The wool exported is equal in value to £17,000,000; and their total gold produce from 1851 to the close of last year, inclusive of New Zealand, is about £323,400,000, yet this latter splendid result gives promise of being rivalled by the growing production of silver, tin, copper, and coal, which, with other minerals and metals, have already yielded a further aggregate of £74,000,000.

The assets of the leading banks having transactions in Australia amounted in June, 1887 to £117,500,000, and their liabilities to £86,000,000. It is impossible to form a trustworthy estimate of the number of hands employed in the manufacturing industries of the colonies, or

the amount of capital invested in them. But it is undeniable that a marked impulse has been given to these industries, as well as to commerce generally, by every International Exhibition which has yet been held in these colonies, and there is every reason to believe that the Exhibition of 1888 will be no exception to the rule.

Nor can it be overlooked that an infinitesimal fraction of the continent is all that has hitherto been occupied by settlers, much of the richest soil being still left under the undisputed sway of the eucalyptus or the kangaroo in regions untrodden by the foot of man. It is believed by those competent to offer an opinion on the subject that the prospects held out to the patient and well-directed exertions of suitable immigrants are more solid and inviting to-day than in the most brilliant portion of the gold era, which may be compared to the preliminary symphony introducing the performance of an oratorio, as inaugurating the progressive and enduring prosperity of this continent.

The bright outlook suggested by the magnificent collection of articles, illustrative of the varied products of civilised nations, detailed in this Catalogue, is signally enhanced by the spectacle of Australian unity of aim presented by the exhibiting colonies. Their harmonious co-operation to render the occasion a success, and the kindly association of their representatives in carrying out the objects of the Exhibition, must be taken as a happy augury.

Instead of the wine and wool exhibits of the several Australasian colonies, and the art treasures displayed by these colonies and by distant countries, being specially noted in the introductions preceding the descriptions of the contents of their respective courts, these three several categories of exhibits are dealt with in introductions relating exclusively to themselves. A similar remark applies to the educational exhibits, which have an introduction bearing solely on the subjects to which they refer.

It may be stated that the Editor was limited by instructions to 75 pages in all of introductory matter, and as this is distributed over a great variety of subjects, it will readily be understood that comparative brevity and condensation were rendered inevitable.

The place of honour in this volume is appropriately assigned to the exhibits of New South Wales, as the elder sister and *prima inter pares* in the group of Australian colonies. At the same time, it is to be regretted that after much delay and many attempts to obtain from the New South Wales Commission an accurate descriptive list of her general exhibits, outside the Art section, the Printer was under the necessity of going to press without receiving so correct a list of them as could be desired.

As the contract arranged between the Executive Commissioners and the Printer only admits of three lines free to each exhibitor, in each class, the list of pictures, especially in the British and Victorian Galleries, is unavoidably imperfect; but to remedy this shortcoming, for which the Editor is in no way responsible, a separate Art Catalogue has been issued in which British, Victorian, and other Art exhibits are fully described.

It only remains to be stated that particulars of exhibits which failed to arrive in time to appear in their proper places, will be found under the head of "*Addenda*" at the end of the Second Volume.

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INTRODUCTION TO THE EDUCATIONAL EXHIBITS.

It may assist those practically interested in the varied display of Educational Exhibits, to appreciate the leading features in the State-administered systems of Australasia, to have placed before them a summarised comparative statement of the points in which they mainly differ.

It may be broadly stated that the educational systems carried on under the control of the respective Governments of the Australasian colonies have two characteristics in common. In every case the State system of education is compulsory and undenominational. In some instances, however, what is called non-sectarian religious instruction is recognised as part of school routine, although it is not made obligatory where parents object to the reception of it by their children. In Victoria, New Zealand, and Tasmania, the teaching provided by the State is wholly secular; but in New South Wales, South Australia, Queensland, and Western Australia, Scripture lessons are taught to scholars whose parents or guardians do not take exception to them, while in the colony last mentioned some assistance is granted from the public funds to private denominational schools. Public instruction is free in Victoria, Queensland, and New Zealand, but fees are charged in the other colonies, or are entirely remitted where the parents are unable to pay them. As regards the school age, it varies in the different colonies; in Victoria it is from 6 to 15 years, in New South Wales from 6 to 14, in Queensland from 6 to 12, in South Australia from 7 to 18, in Tasmania from 7 to 14, and in New Zealand from 7 to 13 years. The following table shows the number of State schools, teachers, and scholars in each Australasian colony during the year 1886; also the proportion of scholars in average attendance to population:—

Colony.	Number of Schools.	Number of Teachers.	Scholars in Average Attendance.	
			Number.	Number per 100 of the Population.
New South Wales	2,170	3,756	105,538	10·77
Victoria	1,870	4,175	128,550	12·52
Queensland	479	1,382	32,250	9·70
South Australia	504	1,081	28,000	8·94
Western Australia	89	150	3,344	8·99
Total	5,112	10,544	292,682	11·05
Tasmania	209	390	7,866	5·81
New Zealand	1,054	2,721	80,737	13·87
Grand Total	6,375	13,655	381,285	11·32

According to the contents of the above table, the average attendance at State schools is higher in Victoria than in any other of the Australasian colonies except New Zealand, in which colony, however, it may be observed that the proportion is increased by Maori children being included among the scholars, though not included in the population as forming the basis of the calculated average. On the other hand, it will be found that if the percentage of average attendance to enrolment be considered, Western Australia stands at the top of the list with 74·17 per cent., followed by South Australia with 63·05 per cent., New South Wales with 56·70 per cent., New Zealand with 55·85, Queensland with 54·75, Victoria with 53·58, and Tasmania with only 49·12 per cent. The position of Tasmania at the bottom of the scale is significant, because she not only stands lowest in the percentage of average attendance to enrolment, but also in the proportion of State school scholars to population. The latter fact, however, is accounted for on the ground that in Tasmania the proportion of children to the population is smaller than in the other colonies. If we take the comparative existence of

illiteracy as a test of the progress which elementary education has made in the different colonies, New Zealand, Victoria, and South Australia are bracketed as containing only 3 per cent. of adults of fifteen years of age and upwards living who could not read. Next comes Queensland with 5 per cent., New South Wales with 7 per cent., West Australia with 9 per cent., and Tasmania with 11 per cent., at and above the age specified, who could not read. But in compiling the returns on which these results are arrived at, most of the colonies have excluded the aborigines, and several of them have not separated the Chinese, or so distinguished their educational attainments as to admit of their being accurately deducted from the remainder of the population. It would obviously be unfair to set down the Chinese as illiterate because unable to read English, which only a small minority of them are able to do.

In comparing the cost of public instruction in the several Australasian colonies for the year ending 31st December, 1886, the most noteworthy point is the large amount paid by New South Wales as compared with other colonies. If we take Victoria, for example, it appears that although the average number of scholars under instruction in New South Wales was fewer by 18,012, or nearly 15 per cent., than the number in Victoria, the cost of instructing them was more by £112,827, or 21 per cent. The following table, from Mr. Hayter's "Victorian Year Book, 1886-7," shows the average cost of instruction per scholar, distinguishing the proportions defrayed by the State, and by parents or otherwise, in each colony.

Colony.	Cost of Instruction per Scholar in Average Attendance.			
	Paid by the State.	Paid by Parents, &c.	Total.	
	£ s. d.	£ s. d.	£	s. d.
1. New South Wales	5 12 1	0 11 11	6	4 0
2. Tasmania	3 9 5	1 1 6	4	10 11
3. Victoria	4 7 1	0 0 7	4	7 8
4. New Zealand	4 5 10	0 0 1	4	5 11
5. South Australia	3 4 10	0 16 11	4	1 9
6. Queensland	4 0 10	—	4	0 10
7. Western Australia	2 13 4	0 8 6	3	1 10

As regards the net cost to the State of instruction per head of population, New South Wales still heads the list, representing 13s. 4d. per head, Victoria 12s., New Zealand 11s. 11d., Queensland 7s. 10d., South Australia 7s. 4d., Western Australia 5s. 7d., and Tasmania 5s. 3d. The cost per scholar in average attendance in Australia is £4 19s. 2d., and the cost per head of population is 11s. In Australia, with Tasmania and New Zealand added, the cost per scholar is £4 16s. 2d., and the cost per head of population is 10s. 11d. In Victoria the amount shown as paid by parents is for instruction in subjects not included in the regular course compulsorily enforced.

The Education Act of *New South Wales* specifies the State schools to be (1) *Public*, in which the main object shall be to afford the best primary education to all children without sectarian or class distinction; (2) *Superior Public*, in towns and populous districts in which additional lessons in the higher branches of education may be given; (3) *Evening*, for the instruction of those whose primary education has been neglected; (4) *High*, for boys and girls, the former to complete their public school curriculum, or to prepare for the University. It is enacted that the weekly fees in the public schools shall not exceed threepence for each child up to four of one family, and for four or any larger number of the same family the total amount is not to exceed one shilling. New standards of proficiency came into force at the beginning of 1885, according to which the number of subjects taught to the lower classes was reduced. The new arrangement minimises the temptation of teachers to prepare pupils specially for the examinations in the class of subjects which can be got up mechanically, with a view to make up for deficiencies in the higher or more intellectual branches, the result being that much less encouragement than formerly is given to "cram." Superior public schools in New South Wales meet a felt want, especially where high schools or superior private scholastic institutions do not exist. The instruction given in them includes, in addition to primary subjects, mathematics, Latin, and French. Formerly an extra fee was charged for these special subjects; but as the imposition of this charge prevented many children from receiving the full benefits of the State system of education, it was abolished. Superior schools can only be established where twenty children capable of passing the fifth-class standard can be found. High schools for boys and girls are in operation, but do not receive an encouraging amount of support, having regard to the moderate fees charged and the advanced character of the education offered. The crown of the educational edifice of New South Wales is, of course, the University of Sydney, to which the entire State school system

INTRODUCTION TO THE EDUCATIONAL EXHIBITS.

leads up. Provision is made for the instruction of children in sparsely inhabited districts in the interior by what is known as a "house-to-house" system, the teachers travelling from place to place, and meeting groups of children in turn. The waifs and strays neglected or deserted in the large populations are for the most part boarded out, due regard being had to the supply of their educational wants by their foster-parents. A technical college has been established in Sydney in connection with the Sydney Mechanics' School of Arts, the management of which has been transferred to the Education Board. The Parliamentary vote for technical education in 1885 amounted to over £17,000.

In *Victoria* one of the most formidable difficulties in the working of the Act is the glaring disparity which exists between the average attendance at the State schools and the number on the rolls, although it is claimed that the average attendance now makes a satisfactory advance. It is also noticeable that children are being continually removed from school at an earlier age than they formerly were, and this circumstance has led to a proposal to reduce the school age, which is exceptionally high compared with other colonies. The work of settling the exact position to be occupied by each school and every member of its staff is entrusted to "classifiers," who consist of (1) the Inspector-General, (2) the head teacher of a State school having an attendance of more than 400 pupils, and (3) another person appointed by the Governor in Council. Night-schools are established by the Minister as occasion may require. The system of payment to teachers "by results" prevails, although it is protested against by many of the best of their order, and by many enlightened educationists in Europe and America, as contrary to the true scientific method of developing the mental powers of young people. Up to the present the State has provided no intermediate system of education between the State school and the University, beyond awarding a given number of scholarships annually under certain restricted conditions to scholars from elementary schools. The high schools or colleges in which the scholarships are available are denominational institutions, notwithstanding that it is an essential part of the Victorian State school system that the instruction given in the State schools shall be exclusively secular. Thirty-six schools of design have been established at various places in Victoria in connection with a Royal Commission for promoting technological and industrial instruction. Lands endowed by the Crown have been vested in trustees for promoting colleges to instruct students in scientific and practical agriculture. The University is partly supported by a Government grant of £11,000, and partly by the fees of the students attending lectures and entering for matriculation and degrees.

In *South Australia*, under recent Acts, every State school must have an attendance of at least twenty scholars. The fees are fixed at 4d. per week for children under five years of age, and 6d. for those above that age; but in cases of poverty the amounts may be remitted and paid to the teacher by the Government. After seven years of age, the attendance is compulsory for not less than thirty-five days in each quarter. Itinerant teachers may be employed in thinly-populated districts. Scholarships, exhibitions, and bursaries are open to pupils at public schools, rendering accessible to the children of the poor as well as of the rich the highest educational advantages at the University of Adelaide, or at any approved European University. Six exhibitions also entitle the holders to free education at any of the colleges which they may select. The training-school system includes practical work, not merely in the small model school of the institution, but visits also to the six large schools of Adelaide. South Australia has long had her Government Experimental Farm for the reception of students who devote themselves to the study of sciences related to agriculture. The University of Adelaide is subsidised by Parliament, and supported by the munificent bequests of two eminent citizens.

Educational affairs in *Western Australia* are administered by a central board, consisting of five members, all of whom must be laymen, one of whom is appointed by the Governor, and acts as chairman, while of the other four no two must belong to the same religious denomination. The District Board consists of five members chosen by the ratepayers, who have been resident in the colony for at least six months. The provisions for religious education are almost identical with those for Great Britain as expressed in British Acts and codes. Voluntary schools receive public aid if they are willing to give the necessary information as to their statistics and course of instruction. They are described as "assisted schools," but no grant is made for their erection. No Government school is supported and no school provided by voluntary efforts is aided by public funds when two such schools are within four miles of each other, unless the combined number of scholars attending the schools shall amount at least to forty.

Not long after *Queensland* obtained separation from New South Wales a board of six gentlemen was appointed to supervise and carry out the establishment of a scheme of national education for that colony. Wherever twenty children of school age—i.e., above five years—could be collected, a school was established, and a teacher provided and paid by the board. At first small fees were demanded of each scholar, according to the class he attended. This tax was abolished in 1864, the teachers subsequently receiving a compensating addition to their salaries. The schools originally established were divided into two classes—vested and non-

vested. The vested schools were unsectarian but not secular, selections of the New Testament being enforced by the teacher, and the books used were those published by the National Commissioners of Ireland. The control of these vested schools was under a Board of Education appointed by the Government, the chairman being a Minister of the Crown for the time being; and this board provided, from money voted by Parliament, for the erection of buildings and the payment of the teachers, whose salaries were supplemented by school fees ranging from 6d. to 1s. 6d. per week. Some time afterwards the fees were abolished, and the stipends of the teachers augmented by increased payments from the public revenue. The non-vested schools were placed under the direct control of the Anglican and Roman Catholic Churches, and for these buildings were supplied by the religious bodies to which the schools belonged; but State-aid was given in the form of salaries to the teachers and grants of books, all other expenses being met by the religious denominations. In these schools any religious doctrine could be taught either by the teachers or by the ministers of the church to which the school belonged. But, in common with the vested, the non-vested schools were under Government inspection. In the former, however, this inspection extended to both secular and religious instruction, while in the latter it applied to secular instruction only. In 1875 a fresh measure was passed creating a Department of Public Instruction, controlled by one of the Ministers of the Crown. Under the new Act State-aid to non-vested schools was withdrawn from December, 1880. Except those sustained by the Roman Catholics, such schools have ceased to exist. It is now ordained by law that in primary schools the whole cost of instruction is defrayed by the State, and no fees are charged to children in attendance. For instruction in subjects not included in the prescribed State-school list, fees are paid by the pupils, the extra subjects being taught before or after regular school hours. Every year 120 scholarships are open for competition, 90 for boys, and 30 for girls, which entitle the winners of them to free education at any grammar school in the colony for a period of three years. Every year, also, a competitive examination is held for three exhibitions to Universities, for which papers are prepared, and the answers of pupils examined by the professors of the University of Sydney. These latter are open to all students under nineteen years of age, and are available for three years in Sydney, Melbourne, Glasgow, Edinburgh, London, Oxford, Cambridge, and other Universities. The primary schools are of two kinds—State-schools, which are maintained wholly at the Government expense, and provisional schools, which are maintained partly at public expense. Provisional schools are divided into three classes:—(1) Regular provisional schools, where the teacher instructs in one school only, which must have an average of not less than twelve children of school age; (2) part-time provisional schools, where one teacher devotes himself to two or more schools, giving a portion of his time to each, the average attendance at any one of them not being less than six children of school age; (3) special provisional schools for the instruction of neglected children. New State schools are only established (1) where central and suitable sites are secured, not too near any other school already established by the Department; (2) where a permanent daily attendance of not less than thirty children of school age can be obtained; and (3) where one-fifth of the estimated cost of the school buildings and furniture has accompanied the applications for the establishment of the institution. Taking the average cost per head for education of children enrolled, and in average daily attendance in State and provisional schools per annum, it is found to be £5 7s. 8½d. The State Orphanages for the reception and care of neglected children is an interesting feature in the State-school system of Queensland. After the children reach the age of twelve they may be hired out for service, and so excessive is the demand for them that there are six applicants for every child when ready to be dismissed, owing to the good name they generally bear among employers. Two-thirds of the wages of the State Orphanage children are paid quarterly in advance to their credit in the savings-banks, the remaining third being allowed for pocket money, the Under-Secretary for Public Instruction being trustee for the fund. The boarding-out system also grows in favour in Queensland.

In Tasmania the system of instruction is compulsory from seven to thirteen years of age, and is non-sectarian; but clergymen and other religious teachers are allowed to impart religious teaching to children of their own persuasion out of school hours. The Council of Education is authorised to hold examinations and to confer annually two Tasmanian scholarships and the degree of Associate of Arts. Eight scholarships, each of the value of £200 per annum, and tenable for four years at a British University, are founded, of which two are annually competed for by male associates of arts above sixteen and under twenty years of age, and who have resided in the colony for at least the preceding five years.

The system of education in New Zealand is secular, entirely free and partly compulsory, and is under a Minister of Education. There are thirteen Education Boards, which have the general management of education in their districts; and for each school district there is a school committee elected annually by householders and parents. The cumulative voting principle is applicable to the election of these committees, and by them the boards are elected. Each board consists of nine members, and three retire annually. The boards have the appointment of the head-masters and assistant-teachers, and the boards usually consult the-

committees before appointments are made. The power of dismissing teachers virtually rests with the boards, and the advantage to the teacher is that his position is more secure than it was before the new Education Act came into force. The Department gives aid to normal schools, which provide for the training of teachers. Every district has a pupil-teacher system, and it has been rightly felt that there should be some training college to which pupil-teachers might go to perfect their studies in teaching. Students in the normal schools in towns having University Colleges have the opportunity of attending University College lectures, including those on science. It is satisfactory to note that the proportion of certificated teachers to the whole number employed in the schools is yearly increasing. The compulsory clauses of the Act, as regards the attendance of the children, can only be enforced in any school by a vote of the majority of the committee of that school. The Bible is not read in the schools, so that no children may be kept away on account of religious or non-religious scruples. So careful is the Act that none shall be barred from receiving elementary education on these grounds, that if a parent objects to his child attending the history lessons, the latter is allowed to absent himself. To encourage merit among the pupils, there were scholarships involving an outlay of £5288 for 104 boys and 61 girls in 1886. The New Zealand University is simply an examining body, like the University of London, and has no fixed abode, the sessions of its Senate being held sometimes in one town and sometimes in another. Degrees in arts, science, law, medicine, and music, are granted to successful competitors; but as the University, like the primary and secondary schools, deals only with secular objects, the degree of Doctor in Divinity is not obtainable. Over 1000 orphans and neglected children are maintained wholly or partly by Government aid in orphanages and industrial schools. A system of boarding-out and apprenticing has recently been introduced with the happiest results. One of the most successful of the educational institutions in New Zealand is the Lincoln Agricultural College, in Canterbury. Students at that institution take part in the work of ploughing, milking, harvesting, and thus gain a practical acquaintance with the whole round of farming operations while receiving instruction in literature and science. Twenty-six secondary schools are incorporated or endorsed by the New Zealand Government.

INTRODUCTION TO THE WOOL EXHIBITS.

CUNNINGHAM, the explorer, asked in 1827, with regard to Australia as being exceptionally adapted for the culture of wool: "Whatever are we to do with the millions of pastoral acres scattered over our continent but to graze them in some way or other? The climate is proved to increase unassisted the fineness of our wool-staple, a circumstance ascribed by some to native grasses, by others solely to the climate, and by others again to the clay soils, which are said by English sheep-farmers uniformly to improve the quality of the fleece." The wool exhibits, various though they be, emphasise the conclusion at which Europe and America have arrived, that in fineness of staple Australian fleece continues to hold an unrivalled position throughout the world. New Zealand, however, is distinguished for long: rather than fine wool, the result of climatic conditions.

It is not uninteresting to observe how in some Australian colonies the pastoral industry has changed under the influence of her circumstances. South Australia began varying sheep course on small freehold farms, and expanded into the squatter system on leasehold held from the State. Victoria, on the other hand, once the genuine squatter-land, with scarcely any freehold farms for the first twenty years or more, has gradually been altering its character. Instead of large areas roamed over by flocks of considerable magnitude, it is fast becoming a colony of small grazing farmers. It is true that such a class of graziers could not, as a rich squatter did lately, give 1100 guineas for a ram, to the advantage of future fleece, nor could they indulge in expensive machinery for the get-up of wool; but they would be able, on limited areas to improve the native grasses, to employ irrigation methods, to obtain a higher percentage of lambs by their extra care, and raise to a higher standard the breeds they found best for marketable purposes. In any case the State thus gains a wider distribution of peaceful and fairly well-to-do citizens, whose children will have a prospect of permanent homes on or near the property of their parents. Another effect is already conspicuous. Demand for larger sheep in the ever-expanding seats of town industries necessitates the production of long wool, which must sooner or later revolutionise this export. Under the system of large squatters only the fine wool of the Merino sheep was raised, and that is still the material in the outlying districts. As these areas are reached, however, by the farming grazier, under the modern system of pastoral leasehold, with right of purchase, the Merino will probably retire to the warmer and drier interior of Australia, which the selector is not likely to reach for many years.

Notwithstanding the fear of over-production which is excited when a good season occurs, there is no ground for supposing that the Australian clip of 1887-8 will have the smallest effect in disturbing the balance of trade. Indeed, there is every probability that our heavy wool crop in this part of the world will hardly avail to counterbalance the diminished supply in the River Plate, to the results of whose competition many look with grave apprehensions. The simple fact is that, however nearly wool-producing countries may have overtaken the demand for inferior qualities, the reduction in price for really first-class clips has not been so very serious during the period of depression. The following table, quoted by Messrs. Goldsborough and Co., shows the quantities of River Plate wool to have fallen off in each year since 1885:—

RIVER PLATE WOOL SUPPLIES.

Year.	—		Increase.	Decrease.
	Bales.	Bales.		
1878	286,000	—
1879	270,000	—
1880	289,000	19,000
1881	282,000	—
1882	344,000	62,000
1883	350,000	6,000
1884	365,000	15,000
1885	402,000	37,000
1886	382,000	—
1887	342,000	20,000
				40,000

In the struggle for supremacy which is always going on between the leading wool-growing countries of the world, Australia and the River Plate out-distance all competitors. There is a prevailing opinion in some quarters that the wool-growers of South America occupy a more favourable position than those of Australia, in consequence of the much greater cheapness of land, and its superior carrying capacity, in the River Plate country. But the excessive fluctuations which take place in the supplies of South American wool from climatic causes constitute a drawback which operates even more injuriously on the whole than the occasionally protracted droughts which visit Australia. In Monte Video the pasture in its natural state is not considered by experts to be suitable for sheep. After some progress has been made in the culture of flocks, and just when prosperity seems to have been attained, an epidemic not unfrequently sweeps them off. Scab is one of the most prominent diseases with which flocks are attacked in the Republic mentioned. This misfortune is aggravated by the fact that there is no scab law in the State, and despite the most laborious efforts to protect sheep, they are constantly liable to infection from careless neighbouring selectors. The same difficulties, however, are not encountered in Monte Video in rearing cattle, for which the country appears to be well adapted. In the Argentine Confederation the process of "refining" has to be adopted in order to prepare the grazing lands for depasturing stock. The grass in its original state stands several feet high, is intermingled with scrub, being very rank, and only fit to support low-grade or wild animals. The first step towards adapting the land for superior breeds of sheep and cattle consists of burning off portions of the coarse vegetation. It is then stocked. The burning process is repeated at intervals, and in the course of three years, under this régime, the grass becomes as fine as is found in an English meadow, carrying about two sheep to the acre. But skilled travellers in South America have stated that one Australasian sheep yields as much profit as two sheep do in Buenos Ayres. Sheep in that country are shepherded in flocks of about 2000, and must be yarded every night. The dew is so heavy that unless they are on dry ground over night they are almost certain to be attacked with foot-rot, and die in large numbers. Under these circumstances there is no probability of South American wool competing with Australasian fine long combing wool, though it might compare favourably with our second-class descriptions. While these remarks apply to the Argentine provinces generally there are patches of country which produce the finer qualities. But there is no sign at present of the native farmers applying themselves vigorously to improve their breeds of sheep. As regards the mutton sent home from the Plate, it is pronounced a failure, and the meat-freezing company whose works were established near the city of Buenos Ayres are reported to have lost £28,000 over their undertaking. A trial has been made to send home cargoes of lambs and cattle in fast-sailing steamers, which is not unlikely to succeed.

The subjoined table, showing the comparative production of wool over the same series of years, as quoted in the previous table, in Australasia, the River Plate, and the United States, demonstrates how groundless are our fears as to the rivalry of these sources of supply.

COMPARATIVE PRODUCTION.

Year.	Colonial.	River Plate.*	United States.*	Total.
	Bales.	Bales.	Bales.	Bales.
1878 ..	970,000	500,500	527,000	1,998,000
1879 ..	1,015,000	472,500	581,250	2,068,750
1880 ..	1,088,000	505,750	600,000	2,193,750
1881 ..	1,161,000	493,500	680,000	2,334,500
1882 ..	1,190,000	602,000	725,000	2,517,000
1883 ..	1,253,000	612,500	750,000	2,615,500
1884 ..	1,303,000	639,000	770,000	2,712,000
1885 ..	1,282,000	703,000	755,000	2,740,000
1886 ..	1,432,000	668,000	712,000	2,812,500
1887 ..	1,440,000	598,000	662,500	2,700,500

* Reckoned on the level of an Australian bale.

From this comparison it appears that the United States produce less wool than in 1881 while the supply from the River Plate is subject to fluctuations more severe than any experienced of late years in Australasia.

As the United States constitute a market for Australian wool of growing importance, it may not be inopportune to advert briefly to the great Conference of growers, manufacturers, and wool merchants which was held at Washington in January last.

At the opening of that assembly growers seemed not only indisposed to accept any proposals for a moderate reduction of the duty on wool, but, on the contrary, inclined to insist on its being decidedly increased. They were under the impression that carpet wools, which are now admitted at a low duty, were being used for purposes never contemplated when Congress imposed a lower rate of duty upon them than upon Merino wool. It was contended by the growers that 40,000,000 lbs. of carpet wool imported at the lower rate of duty was used for making other goods, and demanded that the present rate of duty upon carpet wools should be doubled. The manufacturers took occasion to point out that the importation of carpet wools during the previous fiscal year ending June 30th, 1887, amounted to 83,000,000 lbs., and that according to the views of the growers themselves the domestic production of carpet wools could not be set down at more than 20,000,000 lbs., giving a gross supply of 103,000,000 lbs. Of this total 95,000,000 lbs. were known to be used in carpet mills. But as this left only 8,000,000 lbs., or 8 per cent., which could be employed for other purposes, including the manufacture of coarse blankets, the fallacy of the argument of the growers was self-evident. The latter also required that the present rate of duty on Merino wools should be altered. Instead of 5d. per lb. on those up to 15d. per lb., and 6d. per lb. on qualities of higher value, they wished the duty to be changed to 6d. per lb. for wools worth over 10d. per lb. This alteration would be equivalent to increasing the duty on Australian wools from 5d. to 6d. per lb. The Conference sat two days without the growers being convinced that their opinions were impracticable, the result being that a sub-committee was appointed to give the question fuller consideration. Finally it was decided to abandon the wool tariff of 1867, with a few slight modifications which are tantamount to increases. The majority favoured the idea that the duties on woollen goods should be raised even higher than those of the ultra-protectionist tariff of 1867. If the wish of the President of the United States that the large surplus income of the country should be applied in abolishing duties on wool and some other raw materials is not to be acceded to by the American Legislature, it is no less obvious that the recommendations of this Conference have not the smallest chance of being adopted by Congress. The *American Wool Reporter*, although opposed to free wool, commenting on the absurd attitude assumed by the Conference, says: "At a period when the whole country is demanding a reduction of the surplus revenues of the Government, when very many protectionists admit that a portion of such reduction should be applied to foreign duties, and when at least an influential minority of the woollen manufacturers of the United States are believers in a lower tariff upon wool, this Conference comes forward with a demand that the wool interests of the nation shall be made a conspicuous exception to the general policy of revenue reduction, and that the duties on wool alone shall be increased, while those on other articles are being reduced."

Complicated as the situation above described appears, it is not difficult to comprehend. The United States are great producers of food products and raw materials. Wool is almost the only raw material they require to import, and the duty on wool is the only sop which the protected manufacturers can give the farmers to keep them in good humour. There is some risk that if the manufacturers should openly throw over the farmers on this question the farmers might be tempted to vote straight for free trade. Hence the inconsistency of holding a Conference in which many woollen manufacturers pretended to favour an increase of duty on wool, while at the same time they knew perfectly well that a reduction was inevitable.

It is a singular coincidence that, simultaneously with a tendency to reduce, if not abolish, the wool import duties on the part of Americans in order to facilitate the rapid expansion of their woollen manufactures, a retrospect in the woollen industry in France for 1887 marks a decline. The value of the imports of wool into France for the first eleven months of 1887 amounted to £12,840,000, compared with £15,040,000 in the corresponding part of 1886, the falling off being £2,200,000, or 14*½* per cent. During the same period of 1887 the exports of wool fabrics amounted to £12,680,000, as against £18,720,000 in 1886, and the export of yarns to £1,120,000, against £1,400,000, the total decrease being £1,120,000, or 7*½* per cent. On the other hand, these decreases have been contemporaneous with a substantial increase in the imports into France from Great Britain. There has also been a great shrinkage in the amount of business transacted at Havre, the chief centre of purely French transactions in River Plate wool, and at Bordeaux, where the bulk of the River Plate sheepskins business takes place. The importations of River Plate wool into Havre have fallen off from 33,676 bales in 1885 to 16,617 bales in 1887, and the transit business in Dunkirk has decreased from 139,598 bales in 1885 to 127,486 bales in 1887. In River Plate sheepskins France was also a great loser, the Bordeaux imports having fallen off from 65,183 bales in 1885 to 46,541 bales in 1887.

From the following table the shipments from Australasia from 1st July, 1887, to 3rd May, 1888, will show at a glance the relative positions of the several colonies as exporters of wool.

INTRODUCTION TO THE WOOL EXHIBITS.

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Colony.	1887-8.	1886-7.	Increase.
	Bales.	Bales.	Bales.
New South Wales	584,941	523,000	61,941
Victoria	338,279	324,437	13,842
South Australia	149,248	146,601	2,647
Queensland	82,511	58,405	24,106
West Australia	16,438	16,973	65
Tasmania	16,657	14,995	1,662
New Zealand	237,004	243,548	—
Less decrease New Zealand ..	1,225,078	1,127,359	104,263 6,544
Total increase for 1887 ..	—	—	97,719

The year 1887, as distinguished from its predecessor, was one of the most uneventful periods in the annals of the wool trade. The fluctuations, though in no instance wide, showed a declining tendency in prices as a whole, but the closing quotations were almost on a level with those ruling in the first series of sales. These sales opened at an advance of ½d. to 1d. per lb. on greasy and 1d. to 1½d. per lb. on scoured descriptions, compared with the previous December rates. The keenest competition was for good greasy, combing, and lambs, while washed wools were not in demand. The second (March-April) series showed firmness, the variations either way not exceeding ½d. per lb. At the opening of the third (June-July) series there was a fall of 1d. on greasy and ½d. to 1d. on scoured about the middle of the series, when a temporary improvement took place. The fourth (September-October) series opened with a decline on all but superior greasy, the fall on the medium and faulty descriptions of unwashed being ½d. to 1d., and on scoured ½d. to 2d. In Goldsborough's *Annual Review of the Wool Trade* for last season, it is stated that "Yorkshire buyers maintained the lead as regards the quantity taken, although a fair proportion of pieces, certain varieties of crossbred, and the bulk of fine Merinos were now being secured by the Continental section of the trade, who, while exercising extreme caution, allowed nothing to escape their notice. The Americans were also buying freely, and many of our choicest selections were secured for the United States and Canada."

New South Wales was prevented by shearing troubles from commencing the selling season for a fortnight later than in the previous year. As the season advanced, however, that difficulty was satisfactorily adjusted, and between the 12th October and the end of November, about 60,000 bales were disposed of in Sydney, a total which beats all previous records. The fleeces of the eastern colony were charged with an excess of yolk, sometimes congealed in the centre of the staple, while the fibre is reported to have lost considerably in fineness. These characteristics of a good season were also noticeable more or less in the wools of Victoria and some other colonies. At the same time, the season's clip, as a whole, was considerably above the average. Differences of soil and climate continue to make the distinction in quality very pronounced between the wools of one district and those of another. The Eastern Riverine kinds this year attained a superior position, owing to their well-grown, bright, soft, and extremely light condition; and in consequence they had peculiar attractions for American buyers, whose purchases were on a larger scale than previously. The wools of Western Victoria, while noted for excellence as before, were affected by scarcity of feed during the winter months, and were more light than usual. The soft brown wools from the Upper Lachlan and Central New South Wales have in some measure recovered that silky aspect which commends them so highly to French manufacturers. There is a limited area west of the Darling, from which the wool obtained cannot fail eventually to be profitable to growers, since it possesses properties which will always make it popular with spinners.

INTRODUCTION TO THE WINE EXHIBITS.

UNTIL the International Exhibition of 1881, the wine culture of Australia had experienced discouraging vicissitudes. The incident which seemed to have had the most powerful effect in that year in turning the tide was a trophy of solid silver, valued at £800, offered by the late Emperor of Germany "to an exhibitor in one of the Australasian Colonies as an acknowledgment of the efforts in promoting art and industry, as shown by the high qualities of the goods manufactured by such exhibitor." From the day when the award was made, after keen competition, to the most successful exhibitor of Australian wine, the prejudice which had previously existed against that product began to yield. It is stated by Mr. Hubert Castella that "a few months afterwards the growers of Victoria could count the value of their produce—even of their properties—advanced." A general improvement in the quality of Australian wines dates from the period referred to, and the Australian wine exhibits at the Indian and Colonial Exhibition in 1886 demonstrated a marked advance in viticulture and in the character of wine manufacture. The foreign demand since that special opportunity occurred of introducing the wines of these colonies to Europe has steadily increased; and if the article is only duly matured, and in all respects rendered marketable, no Australian industry will prove more inviting to capital and enterprise.

With the exception of the sub-tropical portion and the higher parts of the mountain ranges of New South Wales, grape vines thrive in that colony and bear abundant crops of succulent fruit, equal in size to the most renowned products of France, the Rhine lands, and Spain. Still vine culture in New South Wales, as elsewhere in Australia, is only in its infancy. The local demand is barely satisfied by the present supply, and when the market being developed for Australian wine in England is taken into account, to say nothing of India, Japan, and the Malay Peninsula, the future of the industry would appear to be fairly assured, provided the phylloxera pest can be effectually resisted. The total area under vines for 1887 in New South Wales was 5840 acres, but the land planted with vines expressly for making wine did not exceed 3181 acres, yielding 601,897 gallons, the average number of gallons being 192.23 per acre. But this, strangely enough, marks a decline as compared with ten years previously.

In Victoria, the warm district of the Murray, of which Rutherglen is the centre, supplies at present one-third of the wines of that colony. A fertile plain thirty miles in diameter stretches along the river, and the road from Melbourne passes through the middle of it. Owing to the superior class of wine grown in the shire of Rutherglen, the area devoted to the culture of that commodity rose from 700 acres in 1881 to about 3500 acres in 1885. The northern slopes of the ranges in the centre of Victoria, from Stawell to Bendigo, are capable of producing fine wines. The shire of Stawell includes seventy-six vineyards, three of these covering an average of sixty acres, the other seventy-three being only an average of eight acres in extent. At Ararat thirty-eight growers cultivate an average of ten acres each, and at Marong an average of three acres each. Strathfieldsaye, on the Emu Creek, has sixty-two growers, three of whom own over thirty acres, the others averaging five each. Castlemaine and the valley through which the River Goulburn runs contains many important vineyards, the principal being the Tahbilk with 250 acres. The wines of the Murray may be compared with those of Spain and Portugal, while those of Bendigo, Stawell, and the Goulburn correspond to those of the Rhone and the Pyrenees. Grapes grown in a cooler latitude near Melbourne produce wines resembling those of the Rhine and Bordeaux. The Yarra vineyards, situated on the slopes of gentle hills, surrounded by broad flats and flooded in winter, occupy about 400 acres. M. Armand Lalande, president of the Chamber of Commerce of Bordeaux, fixed the price of two red wines grown in Victoria, of the 1879 vintage, at 1000 fr. per tonneau, which was the price of the *Crus Bourgeois*, superior, of Margaux and St. Julien at two years old. It is the opinion of able judges that there is a stretch of land on the southern coast of Victoria, extending from Cape Otway to the River Glenelg, 500 miles long by 60 broad, which represents the most temperate climate of all Australia, and perhaps the most fertile, not yet tried for viticulture, but which may prove one of the most valuable parts of the continent for vine culture. But compared with California, which contains as nearly as possible the same number of inhabitants as Victoria, both the state and the colony having received their first great stimulus to progress from gold

discoveries within two years of each other, Victoria is immensely behind as a wine-producing country. The quantity of wine returned by Victoria in 1886-7 was 986,041 gallons, or less than in 1885-6 by nearly 18,000 gallons; but the return of California for the same year was close on 20,000,000 gallons. The backwardness of Victoria in this industry is partly accounted for, however, by the ravages in the Geelong district of the vine disease. The vines were destroyed by statute over an area of 281 acres, the last of the diseased vineyards being uprooted in 1882. Still the phylloxera is not extinct, and the proclaimed district being under quarantine, the planting of vines within its limits has been indefinitely postponed.

South Australia has already established her reputation as a wine producer. The pioneer winegrower was the late Mr. John Reynell, whose vineyard was planted as far back as the year 1840. Under the stimulus given to the industry by the writings of William Macarthur, of New South Wales, many vineyards were planted, and in 1870 as many as 895,000 gallons were produced from about 7000 acres of vines. The local demand being rapidly overtaken, the price realised for grapes became unremunerative. The result was that many vineyards went out of cultivation. In recent years, however, the favour into which Australian wines are steadily growing in the English market imparts fresh confidence to growers. The manufacture of wine is being treated with more scientific skill, and in a single year no less an area than 1000 acres has been planted in the neighbourhood of Angaston alone. Among the most successful winegrowers in South Australia is Mr. Thomas Hardy, who has some hundreds of acres under vines at Tintara and Bankside, in addition to the large purchases of grapes he makes from small growers. He has also introduced orange and olive culture on a substantial scale, besides the plantation of muscatel grapes for raisins and Zante grapes for currants, all of which branches promise to become a great source of wealth. The Government of South Australia have marked their sense of the importance they attach to viticulture by appointing a professor of that science in connection with the Agricultural College, whose duty it is to analyse the soil of proposed vineyards, advise the class of vine to be planted, give instruction in the proper method of planting, pruning, and rearing the vines, pressing the grapes, and affording general advice on the management of the cellar.

According to Sir F. Napier Broome, the Governor of Western Australia, the latter colony is destined to become a great wine country. The necessities of France, resulting from the phylloxera visitation, are Australia's opportunity. The remarkable extent to which the wine crop in the former country has been diminishing for years past may be understood from the fact that in 1875 it reached 840,000,000 gallons, but in 1885 it had fallen to about 628,000,000 gallons. In March last it seemed highly probable that the import duties on wine would have been abolished by the French Government, but the proposal was subsequently overruled by the Legislative Assembly. A good prospect, notwithstanding, of a trade between France and Australia in the article mentioned may be counted on so soon as this country is prepared to enter the French market. In the opinion of reliable experts two conditions are indispensable to Australia taking a high position in wine manufactures, always assuming that her vineyards can be adequately extended. These are (1) that our wines should be kept sufficiently long to be mellowed by age, and (2) that the manipulation of wine into approved brands whose quality can be uniformly depended on, should, as a rule, be conducted as a branch altogether distinct from the cultivation of vineyards and the working of the wine-press.

Among the wines in the Exhibition from Europe, as might be expected, some have been received from Portugal. It may be observed in passing that, as in the French vineyards, the phylloxera devastation has caused an extensive uprooting of old vines and replanting of new cuttings, around Oporto, from California and Australia. The Mustang, or native vine of Arizona, and the Shiraz and Carbinet vines from Australia, are among those introduced on the Douro. The manufacture of wine in Oporto is kept quite distinct from vine culture. The prolonged treading of the grapes in the lagar is found in Portugal to be the only way for securing perfect fermentation and more colour than could be obtained by any other method; but male labour can be obtained there at 1s. 3d. and female labour at 6d. per day. As the supply of genuine port is now small in proportion to the demand, matured vintages are necessarily costly, and some still date as far back as 1815.

From the neighbourhood of Madrid comes Val de Peñas, a claret largely consumed all over Spain, and much inquired for in England and as far north as Russia. From Xeres comes Pedro Ximenes and other sweet wines, Amontillado and various light-coloured sherries. There are sherries at Port St. Mary sold up to £200 a butt, and some of the old "Solera," used for blending purposes, is not to be bought at any price. In Malaga there are red and white wines—Rota Tent, Muscatel, and others—from one to two hundred years old. At Alcanzar, San Juan, about ninety miles from Madrid, wines are made from the Bosuno, Pardilio, and "Pinto Gordo" grapes for the French market. Ordinary dry Tarragona is red, under 26 degs., unfortified, deep in colour, and rough on the palate as if the stalk were fermented. It is shipped at £11 per pipe of 125 gallons; sweet Tarragona, or Spanish port, at £12; and sherry at £12 per butt of 108 gallons. The bulk of the wine shipped from Tarragona is made in Lerida, some thirty miles distant.

In Bordeaux, the great wine centre of France, some of the cellars are one hundred and fifty years old, and under ground. The fine wines of that place are racked every three months the first year, twice the second, and once the year after. In all the best claret vineyards five kinds of grapes are grown and gathered separately, beginning with the Malbec, the subsequent descriptions in order being the Merlot, Carbinet, Sauvignon, Carmenet, and Verdot. The juice from each is fermented in different vats, and, when drawn off, a proportion of each is put into each separate hogshead. It often takes a week or more to complete the filling in this way, and the wine takes no harm from being kept on ullage during the time of filling.

On the Garonne, many of the cellars are above ground, but are mostly arched over, cool and damp, the walls, casks, and bottles being covered with a greenish mould. In one cellar may be seen stacked as many as 300,000 bottles, including Chateaux Margaux, Chateau Yquem, and many others of exquisite bouquet and flavour.

There are exhibits of wine from Epernay, and sparkling wines from the Rhine. In the latter district the white wines are usually made from the Reisling grape, and pressed off from the skins as early as possible. Received from the growers in February or March, they are fit to bottle for sparkling wines in June or July following, when they are treated by the same process as champagne. There is a portion of the juice of the Pineau Noir mixed with the Reisling, and thus, it is believed, the wine is helped to clear in the bottle. A certain proportion of syrup is also put into each bottle to help effervescence. As for Rudesheim, Johannesberg, Steinberg, Moselle, and many other brands, visitors to the Wine Court can have opportunities of testing their qualities.

INTRODUCTION TO THE NEW SOUTH WALES COURT.

DURING the sixty-three years immediately succeeding the arrival of Governor Phillip in New South Wales in 1788, the two events which exercised most potent influence on the destinies of the colony were the final rejection of convict deportation from England in 1849, and the re-discovery of gold by Hargreaves at Lewis Pond Creek in 1851. The first incident resulted in the foundations of free settlement and untrammeled enterprise, and the second suddenly precipitated so large and active a population in the colony that the old political constitution, under which the early immigrants were ruled, was found not sufficiently elastic to meet the political and social requirements created by the altered circumstances. The Crown, in consequence, felt it expedient to grant responsible government, which was formally inaugurated by Governor Denison a few years subsequently. It is only by estimating aright the operation respectively of these two factors that the striking progress of the colony during the first century of its existence can be fully realised. The estimated population of the colony on the 31st December, 1887, was 1,042,919, the increase for the year being 40,953.

There is an exceptional circumstance not to be overlooked, moreover, as contributing very materially to the prosperity of New South Wales. She enjoys the lion's share of advantage among Australian colonies in the possession of navigable rivers. The Darling is available for navigation 1758 miles, the Murrumbidgee and the Lachlan combined, 900 miles; while the Murray, from one of the goldfields to the point where it enters the territory of South Australia, has a length of 1120 miles. If to this be added the navigable length of the Wakool and Edward, the total extent of rivers fit for the conveyance of merchandise within the colony approaches nearly 4200 miles in the Western District alone. To a country more than two and a half times larger than the United Kingdom, and containing vast interior tracts of pastoral and agricultural land, this is a natural boon, the value of which cannot be overestimated.

LAND UNDER CULTIVATION.—As specimens of the various products of the soil, the foundry, the loom, and the factory meet the eye in the New South Wales Court, it is impossible, in an International Exhibition commemorative of the close of the first hundred years of the development of the colony, to avoid being impressed with the stupendous contrast between the beginning of that period and its termination. In 1788, and for some time afterwards, the hoe was the sole implement in the power of pioneers for sowing wheat. As if at the touch of Aladdin's lamp, we find a century afterwards 389,390 acres within the limits of the colony laid down in wheat, 171,662 acres in maize, and 19,893 in oats. Potatoes were raised on 20,915 acres; sugar cane, of productive quality, on 13,119 acres; barley on 4402 acres; tobacco on 2371 acres; and grapes, for wine, on 3292 acres. But the expansion of population, from natural increase and immigration, is so great that the bread yield of the colony is still far below what is necessary for self-support, and during last year, in addition to a large quantity of wheat, 1,368,420 cwt. of flour were imported.

FRUIT.—Goulburn and a large section of country through which the Great Southern Railway line passes possess conditions both of soil and climate for the cultivation of English fruits and vegetables as well as cereals. The Great Western line runs through a region famous for oranges and vineyards, though the orange groves around Sydney, Parramatta, and on the Lower Hunter River are also highly profitable. Taking the colony as a whole, many semi-tropical products, in addition to fruits belonging to temperate zones, including lemons, bananas, figs, and pine-apples, are grown in profusion. Arrowroot, olives, and capers have been raised in the north, but not on any scale to speak of. Orange groves spread from Parramatta to the districts of Ryde, Pennant Hills, Lane Cove, Central Cumberland, and the Hawkesbury and Nepean Valleys. The production of oranges has nearly doubled since 1878, and, as the supply considerably exceeds the demand in New South Wales as well as in adjacent colonies, growers are compelled to seek an outlet in London, where the fruit can be delivered after the shipments from orange-bearing countries in the Northern hemisphere have ceased. But the culture of other kinds of fruit than grapes and oranges would seem to be retrograding, since New South Wales is dependent on surrounding colonies to the extent of nearly a quarter of a million sterling per annum for various kinds of fruit and vegetables, which could be advantageously cultivated in the colony.

CROPS.—The principal crops produced in the twelve months ending 31st March, 1888, are shown as follows:—

Crops.		Produce.	Value.
		Bushels.	
•Cereal Crops—Wheat	..	4,695,849	£220,975
Maize	..	4,953,125	707,590
		Tons.	
Hay—Wheat	..	70,892	246,872
Oats	..	96,126	384,504
Lucerne and Grass	..	60,438	151,095
Potatoes	..	61,455	188,274
Sugar Cane	..	273,928	82,178
		Galls.	
Grapes for Wine and Brandy	..	669,988	138,998
		Number.	
•Oranges	..	8,704,677	90,674
•Other Fruit and Garden Produce	..	—	413,540

As recently as 1876 the total areas of land under cultivation amounted only to 451,138 acres, or less than three-fourths of an acre per head. On 31st March, 1888—in twelve years—the area cultivated had risen to 1,048,305 acres, which is equal to one acre per head of the population. In 1876 the area of unenclosed land was equal to two-fifths of the whole area of holdings, but in the beginning of 1887 the proportion had fallen to much less than one-tenth, the area unenclosed at the latter period being only 3,397,286 acres out of a total of 36,726,169 acres occupied. The area absolutely unfit for cultivation is estimated at 5,000,000 acres. The chief drawback to successful husbandry in the colony is an irregular rainfall, and want of uniformity in the season; but an extension of irrigation will introduce the needed remedy. Last year's record showed the number of holdings to be 46,162, representing a freehold area of 38,176,768 acres, and the leasehold 3,640,723 acres. But the largest proportion of the territory of 206,999,680 acres, belonging to the Crown, was rented by squatters. Of the acreage alienated, 1,048,305 acres were under cultivation, 32,446,900 acres were enclosed (though used only for grazing purposes), and 3,328,197 remained unenclosed.

The agricultural statistics for the year ended 31st March last show that the total area under cultivation was 1,048,305 acres, being an increase of 70,641 acres. The wheat crop was over 389,390 acres, and yielded 4,953,125 bushels, or 915,719 less than in the previous year, although the area cropped was larger by 70,641 acres. The yield was 12.72 bushels per acre. The area under maize was 171,662 acres, being slightly larger than last year. The yield was 4,953,125 bushels, or 28.85 bushels per acre, being considerably below the average of the last ten years. Very small areas were under barley and oats, which averaged 19 and 27 bushels per acre respectively. The hay crops were much smaller than previously, the total yield being 230,000 tons from 170,000 acres. Potatoes yielded 61,455 tons, as compared with 45,803 tons in 1887, when the area cropped was slightly less. Sugar cane was grown on 18,119 acres, as compared with 5915 in the previous year, and it yielded 273,928 tons, as against 167,959. The area devoted to tobacco increased from 1203 to 2371 acres, and the crop from 13,642 cwt. to 23,465 cwt., while the vineyards produced 669,988 gallons of wine, compared with 601,897 in 1887.

TIMBER.—Among indigenous woods of commercial value, the redgum stands high, being almost as durable as the jarrah of Western Australia. The ironbark, noted for its hardness, is used in shipbuilding, and its life is estimated at fifty years. The blue and white gums are also of use for constructive purposes. But the cedar, which is found in the northern parts of the colony, on flats of tributaries of the eastern rivers, is the most valuable timber of all. For decorative wood carvings, cabinet fittings, and most indoor uses, it is in general request. The fronds of the cabbage-tree palm, which is found in the coast districts, are extensively worked up in the hat-making industry. The *Mesembryanthemum* is largely found on the plains, and is found to be a valuable grazing food for sheep and cattle.

FLOCKS AND HERDS.—In Phillip's day, and for some time afterwards, it seemed as if all attempts to breed flocks of sheep and herds of cattle would prove abortive. The latest returns show the wonderful change which has passed over the spirit of the scene in this respect:—390,609 horses, 1,575,487 cattle, 46,965,152 sheep, and 264,111 pigs, are spread over the hills, valleys, and plains of the colony. Diamond drills and water augers, by aiding in the discovery of water supplies in the arid west, have helped much to alleviate the suffering and loss caused by droughts.

MINING.—Those who first landed at Botany Bay did not venture to dream of the existence of mining resources or the establishment of mining industries in a region only deemed fit originally for a penal settlement. The following table will best exhibit the aggregate mineral and metallic wealth dug out of the soil from the foundation of the colony up to the close of 1887:—

Minerals.	Quantity.	Value.
Gold	9,845,906·77 ozs.	£36,470,310
Silver	2,923,037·62 ,,	612,886
Silver Lead (Ore) " (Metal)	28,825 tons	1,193,463
Iron	33,591 ,,	265,465
Tin (Ingots) " (Regulus and Ore)	85,370 ,,"	7,927,876
Copper	82,892 ,,"	5,163,228
Coal	39,942,907 ,,"	19,699,109
Shale	481,252 ,,"	1,083,174

The gold return for 1887 is better than the return for 1886 by £28,000, the totals being £366,000 and £344,000 respectively, while the export of silver and of silver and lead ore has increased as follows:—

1882	£9,984
1887	£574,410

The mineral output in New South Wales (including coal) now exceeds £3,000,000 per annum, the figures being £3,165,938; and if the recent investments are at all to be justified, that total ought to be doubled this year. The average winnings per head of the miners appear to be as follows:—

Gold	£64 per annum
Silver	845 ,,"
Coal	205 ,,"
Copper	151 ,,"
Tin	160 ,,"

The total value of minerals and metals produced to the close of 1887 amounted to nearly £73,000,000. With reference to gold, it is noteworthy that although that metal has been the greatest attraction in bringing New South Wales under the notice of the outside world, gold-mining for the moment yields in importance to silver, coal, and tin; while compared with pastoral and agricultural produce, the annual value of gold hitherto obtained is inconsiderable. Of the thousands drawn to the colony in the hope of easily acquiring a fortune on the fields of the Turon, not a few have remained to direct their attention to less precarious and less exciting pursuits. Hydraulic sluicing is only in operation in two or three mines in the Kiandra district, and many rich quartz claims were abandoned in former times for want of suitable appliances for dealing with refractory ores. In 1887 the total yield was returned at 110,286 ozs., valued at £394,579, being an increase of £28,285 on 1886. The value of the machinery employed on alluvial and quartz diggings was £298,977. The number of gold miners was 6767, of whom 3942 were engaged in alluvial, and 2665 in quartz mining, 857 being Chinese. The average yield of gold per ton from washdirt was 8 dwts. 7·64 grs., and from quartz 12 dwts. 9·67 grs.

New South Wales has acquired distinction during the past three years in the development of her splendid silver mines along the Barrier Ranges, at Broken Hill, Umberumberka, the Pinnacle, in the Albert district, and Sunny Corner in the Western district, where extensive works are now carried on, and at many other points which bid fair to rival, if not surpass, the celebrated Comstock and Virginia lodes of the United States. The now famous Broken Hill Proprietary Company's mine was originally held by a small syndicate, but was formed into a limited liability Company in 1885, with 16,000 shares of the nominal value of £19 each paid-up, and these are now quoted at £239. In the Silverton district very satisfactory progress has been made during the period, although most of the mines are but in their infancy, and will require a large amount of capital for their successful development.

The distribution of copper in the colony is very extensive, but for some time copper mining has been depressed here, as in all other cupriferous localities, by the low market value of that metal, which has only rallied to a remunerative figure within the last few months. The formations of this character are understood to cover about 6713 square miles, equal to 4,296,320 acres. The ore contains from 9 to 20 per cent. of metal, and during the year the exports amounted to 94,319 ingots, and ore was valued at £198,827.

As may be judged from the exhibits, the colony is rich in tin, large quantities of which have been discovered in recent years. The area of stanniferous country in New South Wales is estimated at 8500 square miles, or 5,440,000 acres. Yet of this total area only a few square-miles have been opened, and but a small section exhausted. For the year already mentioned the returns show 4669 tons ingots, and 5833 tons ore and regulus, to have been obtained, at a value of £525,420. The improved price of this metal of late will doubtless have the effect of attracting more attention from capitalists to these deposits.

The year's production in iron was 3686 tons, valued at £19,068. A high authority has stated that "the most promising iron region in the colony is that traversed by the railway line from the foot of the Zig-Zag to Wallerawang. This district is rich in deposits of coal, iron, copper, and other minerals."

The economic backbone of New South Wales consists of its coal measures, which extend from the 29th to the 36th parallel of south latitude, and branch out to the beach along many miles of coast. The seams are almost equal in quality to the best Welsh coal for steam-generating purposes, while for gas-producing it is superior. Not more than 600 tons were raised in 1823, but for 1887 the output was 2,922,497 tons, valued at £1,346,440, and employment was given to 7998 pitmen and others in raising the mineral. The computed coal area of the colony approaches in extent 23,950 square miles.

In the Illawarra, Bathurst, Berrima, and other districts, immense deposits of kerosene shale have been brought to light, and large factories are being carried on for the raising and manufacture of oil.

In some of the diamond claims at Tongha heavy finds of that precious stone have been made, and quantities sufficient have been met with in Bingera and Tingha to encourage the further prosecution of the industry. It is supposed, however, that many diamonds are lost for want of effective appliances to save them.

RAILWAYS.—Twenty years after railways were commenced only 406 miles of line were opened for traffic, being an average of 20 miles per annum. Within the last ten years, however, 1380 miles have been opened for traffic, making the total mileage in operation on 31st December, 1887, 2036 miles. Besides, Parliament has authorised the construction of an additional 1413 miles, a portion of which is now in progress of being made. To the end of 1887 the total capital expended on this department of public works was £26,554,357, the revenue derived from existing lines being—£1,357,796 derived from goods, and £850,499 from passengers. The effect of the junction of the New South Wales and Victorian lines at Albury in 1883 has been to draw closer the two colonies in ties of mutual interest by the greatly increased facilities thus offered for speedy passenger traffic between their respective capitals. It is satisfactory, moreover, to observe that the steady development of the great natural resources of New South Wales is coincident with the extension of railways, as is shown in the improving returns of the latter. The gross business for 1887, during which 146 miles were opened, was £2,208,295, and the working expenses £1,457,761, leaving a net balance of £750,534, which, upon the capital at the date specified above, is equal to 2·96 per cent. The number of persons employed on the railways and tramways was about 10,000. The weight of goods carried by rail during the year was 3,339,253 tons, comprising mainly cattle, coal, and wool. The number of passengers carried was 14,451,303. The earnings per train per mile in 1885 were 78·61 pence; in 1886, 80·01 pence; and in 1887, 81·88 pence. The working expenses per mile open for traffic were in 1885, £876·56; in 1886, £834·07; and in 1887, £753·17.

BANKING.—The paid-up capital of the fourteen banking companies of Sydney at the end of December, 1887, was returned at £13,150,320, the total assets at £42,874,844, and the liabilities at £31,732,276. The annual dividend to shareholders varied from 6 to 25 per cent., the reserve profits being £7,067,807.

The depositors in Government Savings Banks numbered 118,875, the balance to their credit being £3,675,893, an average of £31 to the credit of each depositor. Compared with the year preceding, this shows an increase of £171,089 in the credit balance at the close of the year, a circumstance which would seem to point to less distress among the working-classes, as there has also been an increase of 6931 depositors.

MILLS AND FACTORIES.—The total number of mills and factories of all descriptions was returned at 3508. Of these, 231 were occupied in working on raw materials from pastoral sources, 797 were for the manufacture of food and drink, 36 were in some way associated with or dependent on agriculture, 844 were connected with building industries, 295 were devoted to the working of metals and the manufacture of machines, 60 establishments were described as boot factories, 65 as clothing factories, 202 as coach and waggon factories, and 149 as printing offices. Five woollen factories turned out 348,000 yards of cloth; 52 soap and candle works produced 190,060 cwt. of soap, and 2,442,960 cwt. of candles; 13 tobacco-factories turned out 2,147,418 lbs. of tobacco, 57 sugar mills 450,000 cwt. of sugar and 880,000 gallons of molasses, and one sugar refinery manufactured 562,300 cwt. of refined sugar. During the year 197,016 gallons of rum were distilled from 42,941 cwt. of molasses, 32 boiling-down establishments produced 385,292 cwt. of tallow, 75 breweries manufactured

9,720,000 gallons of ale and beer; the boot factories disposed of 1,881,210 pairs of boots and shoes, and the output of 282 brickyards was 214,198,600 bricks. The total of workpeople employed was 44,360—40,636 males and 3724 females.

SHIPPING.—The shipping tonnage of New South Wales has nearly doubled in the decade ending 1887, in which year 2815 vessels arrived, with a tonnage amounting to 2,142,457 tons; and 2906 vessels departed, with a tonnage of 2,180,301 tons. The addition of the French and German lines of steamers has materially added to the shipping of Sydney, although 88 per cent. of the whole in the twelve months was owned by British proprietors.

TRADE.—The imports from the United States include timber, breadstuffs, hardware, tobacco and cigars, kerosene, preserved fish, watches and clocks, machinery, leather, and furniture. Exports to the States chiefly embrace gold, coal, tin, skins, and shale. Should the duty be reduced on Australian wool passing into America, a vast expansion of trade in that article is certain. Business with France, Germany, and Belgium has been eminently progressive, especially with the two latter countries; and it has in each case received an obvious impulse from the International Exhibitions of 1879 and 1880-1. With Great Britain 49·81 per cent. of the trade of the colony is carried on. An amended scale of duties came into force in the colony on 1st October, 1887. The list of specific duties has been reduced to 65, and the *ad valorem* duties have been abolished. But the result of this change will necessarily take some time to declare itself. Between New South Wales and the other colonies the total volume of trade for the same annual period was £15,286,758, without including the figures for Western Australia. Compared with 1877, the increase recorded does not exceed £2,170,000, while the four years 1882-5 show a larger result than in 1886, the fluctuation being principally due to variation in seasons. During the year 1887 the total value of trade between New South Wales and the other colonies was £17,619,985.

EXPORTS AND IMPORTS.—The imports from foreign countries for the same period were £18,806,236, and the foreign exports £18,496,917; the excess of imports over exports being £309,819. It is noteworthy that the imports from the United Kingdom fell off within the year £2,167,812, compared with the previous twelve months, owing to the diminished purchasing power of the colony; this result being due to pastoral and agricultural depression. The total imports per head of the population amounted to £18 7s. 10*½*d., and the exports to £18 1s. 10d. per head; the population at the beginning of 1888 being estimated at 1,042,919, of which 574,012 were males and 468,907 were females.

REVENUE.—The revenue for the period was £8,589,001, the rate of taxation being £2 12s. 2d. per head; and the expenditure, inclusive of *recoups*, was £9,582,593.

PUBLIC AND PRIVATE WEALTH.—The estimated value of the public and private wealth of the colony on the 1st January, 1887, was £521,000,000, or about £520 per head of the population. The public estate is valued at £175,128,000, or £174 18s. 2d. per head; and the collective private wealth at £346,250,000.

NEW SOUTH WALES EXHIBITS.

[All Exhibits under Section I. are transferred to the Fine Arts Section of the Catalogue, where they will be found under heading "NEW SOUTH WALES."]

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- 150 Mittagong District Public School.—Work of pupils.
- 151 Mitchell Public School, Mitchell.—Work of pupils.
- 152 Moss Vale Public School, Moss Vale.—Work of pupils.
- 153 Mount Hunter Public School, Mount Hunter.—Work of pupils.
- 154 Mount Keira Public School, Woollongong.—Work of pupils.
- 155 Mount McDonald Public School.—Work of pupils.
- 156 Mudgee District Public Schools, Mudgee.—Work of pupils.
- 157 Muswellbrook Public School, Muswellbrook.—Work of pupils.
- 158 Muttama Public School, Muttama.—Work of pupils.
- 159 Myers, M., Eglinton, Glebe Point, Sydney.—Work in phonography.
- 160 Narranderra Public School, Narranderra.—Work of pupils.
- 161 Neutral Bay Public School, North Shore.—Work of pupils.
- 162 Newcastle East Public School, Newcastle.—Work of pupils.
- 163 Newtown North Public School, Sydney.—Work of pupils.
- 164 Newtown Superior Public School, Sydney.—Work of pupils.
- 165 Nowra Hill Public School, Nowra.—Work of pupils.
- 166 Numba Public School, Shoalhaven.—Work of pupils.
- 167 Paddington Public Evening School, Paddington.—Work of pupils.
- 168 Paddington Superior Public School, Sydney.—Work of pupils.
- 169 Parramatta North Superior Public School, Parramatta.—Work of pupils.
- 170 Parramatta South Superior Public School, Parramatta.—Work of pupils.
- 171 Peakhurst Public School, Peakhurst.—Work of pupils.
- 172 Peat's Ferry Public School, Hawkesbury River.—Work of pupils.
- 173 Pejah Public School, Pejah.—Work of pupils.
- 174 Pennant Hills Public School, Pennant Hills.—Work of pupils.
- 175 Penrith Public School.—Work of pupils.
- 176 Petersham Superior Public School, Petersham.—Work of pupils.
- 177 Picton Public School, Picton.—Work of pupils.
- 178 Pittwater Public School, Hawkesbury River.—Work of pupils.
- 179 Plummer, J., Drawing-Master, Training School, Fort-st.—Examples of wall lessons for drawing classes.
- 180 Pyrmont Superior Public School, Sydney.—Work of pupils.
- 181 Queanbeyan Public School, Queanbeyan.—Work of pupils.
- 182 Randwick Public School, Sydney.—Work of pupils.
- 183 Redfern Superior Public School, Sydney.—Work of pupils.
- 184 Redground Public School, Redground.—Work of pupils.
- 185 Reeve, G. J., Leichhardt.—Work in phonography.
- 186 Regentville Public School, Penrith.—Work of pupils.
- 187 Riley-street Public School, Sydney.—Work of pupils.
- 188 Rookwood Public School, Rookwood.—Work of pupils.
- 189 Ryde Superior Public School, Ryde.—Work of pupils.
- 190 Sackville Reach Public School, Hawkesbury River.—Work of pupils.

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NEW SOUTH WALES EXHIBITS.

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| <p>191 Shell Harbour Public School, Shell Harbour.—Work of pupils.</p> <p>192 Singleton Superior Public School, Singleton.—Work of pupils.</p> <p>193 Stanmore Superior Public School, Sydney.—Work of pupils.</p> <p>194 Stockton Public School, Stockton.—Work of pupils.</p> <p>195 St. Leonard's Public School, Sydney.—Work of pupils.</p> <p>196 St. Mary's Public School, St. Mary's.—Work of pupils.</p> <p>197 Surry Hills Superior Public School, Sydney.—Work of pupils.</p> <p>198 Sussex Street Public School, Sydney.—Work of pupils.</p> <p>199 Sutherland Public School, Sutherland.—Work of pupils.</p> <p>200 Sutton Forest Public School, Sutton Forest.—Work of pupils.</p> <p>201 Terrara Public School, Terrara.—Work of pupils.</p> <p>202 "The Falls" Public School, Nowra.—Work of pupils.</p> <p>203 "The Oaks" Public School, Picton.—Work of pupils.</p> <p>204 Theresa Park Public School, Camden.—Work of pupils.</p> <p>205 Thulabbin Provisional School, Conares.—Work of pupils.</p> <p>206 Tighe's Hill Public School, Newcastle.—Work of pupils.</p> <p>207 Toongabbie Public School, Toongabbie.—Work of pupils.</p> <p>208 Tuena Public School, Tuena.—Work of pupils.</p> <p>209 Ultimo Public School, Sydney.—Work of pupils.</p> <p>210 Uralla Public School, Uralla.—Work of pupils.</p> <p>211 Urana Public School, Urana.—Work of pupils.</p> <p>212 Uranquinty Public School, Wagga Wagga.—Work of pupils.</p> <p>213 Walcha Public School, Walcha.—Work of pupils.</p> <p>214 Wallaraway Public School.—Work of pupils.</p> <p>215 Wamberal Public School, Wamberal.—Work of pupils.</p> <p>216 Wargola Public School, Burwood.—Work of pupils.</p> <p>217 Watson's Bay Public School, Sydney.—Work of pupils.</p> <p>218 Wattamolla Public School, Kangaroo Valley.—Work of pupils.</p> <p>219 Waverley Public School, Waverley.—Work of pupils.</p> <p>220 Wellington District Public School.—Work of pupils.</p> <p>221 Wickham Superior Public School, Wickham.—Work of pupils.</p> <p>222 Wilberforce Public School, Wilberforce.—Work of pupils.</p> <p>223 William-street Public School, Sydney.—Work of pupils.</p> <p>224 Windsor Public School, Windsor.—Work of pupils.</p> <p>225 Wollongong Public School, Wollongong.—Work of pupils.</p> | <p>226 Woodburn Public School, Woodburn.—Work of pupils.</p> <p>227 Woonona Public School, Woonona.—Work of pupils.</p> <p>228 Woollahra Public School, Sydney.—Work of pupils.</p> <p>229 Worragee Public School, Nowra.—Work of pupils.</p> <p>230 Wyrrallah Public School, Lismore.—Work of pupils.</p> <p>231 Yatteyattah Public School, Yatteyattah.—Work of pupils.</p> <p>232 Young Superior Public School, Young.—Work of pupils.</p> |
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Class 7.—Organisation and Appliances for Secondary Instruction.

- 233 Anschau, J., Lismore.—Model of the Richmond, showing soils of the district.
- 234 Board of Technical Education, N.S.W., 129 Phillip-st., Sydney.—Works of students from Sydney Technical College and branch schools.
- 235 Roth, R. H., 42 College-st., Sydney.—Photographs of gymnastic exercises.
- 236 Technological Museum, The Committee of Management of the, Sydney.—Collection of indigenous products of N. S. Wales.

Class 8.—Organisation, Methods, and Appliances for Superior Instruction.

- 237 Chancellor, Sydney, Surbiton, Parramatta.—Fern fronds, collected in Australia.
- 238 Maiden, J. H., F.L.S., F.R.G.S., Technological Museum, Sydney.—Herbarium of plants indigenous in New South Wales.
- 239 Matthews, R., Gundagai.—Mounted microscopic specimens of local plants.
- 240 Roth, R. H., 42 College-st., Sydney.—Furniture for schools, etc.
- 241 Seccombe, E., Nowra.—Collection of seaweeds.

Class 9.—Printing, Books.

- 242 Angus & Robertson, Market-st., Sydney.—View of Old Sydney.
- 243 Batson & Co., 185 Clarence-st., Sydney.—Specimens of printing.
- 244 Bennett, A., Market-st., Sydney.—Vols. of the "Town and Country Journal."
- 245 Cree, G. T., Ellerslie-terrace, Balmain.—Bible printed in 1672.
- 246 Daily Telegraph Newspaper Co. Ltd., King-st., Sydney.—Files of papers, specimens of printing, etc.
- 247 Fairfax, J., & Sons, "Herald" office, Sydney.—Printing.
- 248 Gibbs, Shallard and Co., 81a Pitt-st., Sydney.—Specimens of lithography, copperplate and letterpress printing, etc.
- 249 Holmes, J. L., and Co., 315 Pitt-st., Sydney.—Specimens of typography.
- 250 Knaggs, R. C., and Co., Hunter-st., Newcastle.—Almanac and dictionary.
- 251 Lawrence, A., and Co., 91 Pitt-st., Sydney.—Bound volume of the "Australian Brewers' Journal."

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- 252 Moore, J. J., and Co., George-st., Sydney.**—Elementary song book.
- 253 Potter, C., Government Printer, Sydney.**—Printing and bookbinding, books, photographs, photo-mechanical prints, stereos, electrolytotypes, etc.
- 254 Royal Society of New South Wales, Elizabeth-st., Sydney.**—Transactions, journal, and proceedings.
- 255 Spark, J. L., Woollahra.**—Table of areas.
- 256 Turner and Henderson, 16 and 18 Hunter-st., Sydney.**—Embossing, heraldic, and commercial.
- 257 Wensley and Wensley, 421 George-st., Sydney.**—Engraved copperplates, and proofs from same.
- 258 Wilkinson, H. T., 233 Macquarie-st., Sydney.**—Old book—“The Whole Duty of Man.”
- 259 Wilkins, W., North Shore.**—Geography of Australia.
- 260 Year Book of Australia Ltd., 374 George-st., Sydney.**—Year Books, from 1882 to 1888.
- Class 10.—Stationery, Bookbinding, Painting, and Drawing Materials.**
- 261 Bates, W. T., and Co., Malcolm-lane, Sydney.**—Paper boxes.
- 262 Batson and Co., 185 Clarence-st., Sydney.**—Specimens of bookbinding.
- 263 Collins Bros., York-st., Sydney.**—School stationery.
- 264 Picturesque Atlas Publishing Co. Ltd., The, 14 Wynyard-square, Sydney.**—Specimens of bookbinding.
- 265 Sydney Paper Mills Co., Liverpool, N.S.W.—Paper.**
- 266 Thomas, F., 45 King-street Arcade, Sydney.**—Window tickets and show cards.
- Class 11.—General Application of the Arts of Drawing and Modelling.**
- 267 Brown, J., Rockdale.**—Carved emu eggs.
- 268 Copeman, J. J., Howick-st., Bathurst.**—Model of constructive work made from a drawing.
- 269 Commissioners for New South Wales.**—Relief plan of Port Jackson. Artist, F. Maurice.
- 270 Dawson, F. G., 88 Pitt-st., Sydney.**—Playing cards.
- 271 Line, C., Terrace-st., Milson's Point, North Shore.**—Dies in box-wood.
- Class 12.—Photographic Proofs and Apparatus.**
- 272 Ballard, H. B., Singleton.**—Photographs.
- 273 Barrington, Mrs. W. J., 137 Paddington-st., Sydney.**—Photograph on opal.
- 274 Bennett, A., Market-st., Sydney.**—Photographic views taken for the “Town and Country Journal.”
- 275 Boake, B. C., Victoria-arcade, Elizabeth-st., Sydney.**—Photograph of the New South Wales contingent to the Soudan.
- 276 Channon and Co., 631 George-st., Sydney.**—Enlarged photographs.
- 277 Charlemont & Co., Royal-arcade, Sydney.**—Photographs.
- 278 Department of Public Works, Sydney.**—Photographs of public works in New South Wales.
- 279 Dorner, H., Goulburn.**—Photographs.
- 280 Freeman & Co., 346 George-st., Sydney.**—Photographs.
- 281 Geyer, H. H., Hay.**—Photographs.
- 282 Hall and Fitzmaurice, Phillip-st. Sydney***—Photographs.
- 283 Herfort, G., Yass.**—Photographs.
- 284 Hudson Bros. Ltd., Granville.**—Photographs.
- 285 King, H., 816 George-st., Sydney.**—Photographs.
- 286 M'Kie, H., Barnes, Glen Innes.**—Photographs.
- 287 Nagel and Co., 140 King-st., Newtown.**—Photographs.
- 288 Newman, J. H., 12 Oxford-st., Sydney.**—Photographs on opal, autotypes, etc.
- 289 Nicholas, W. A., Fernmount, Bundanoon.**—Photographs.
- 290 Norton, C. T., Grammar School, Singleton.**—Photographs.
- 291 Paine, J., 96 Elizabeth-st., Waterloo, Sydney.**—Photographs.
- 292 Picturesque Atlas Publishing Co. Ltd., 14 Wynyard-square, Sydney.**—Photographs on wood.
- 293 Scouller, J. and R., 231 William-st., Sydney.**—Photographic enlargements on porcelain.
- 294 Slade, W., 2 Mona-terrace, Rushcutter's Bay, Sydney.**—Photographs.
- 295 Solomons, H. B., Armidale.**—Photographs.
- 296 Tuttle & Co., 425 George-st., Sydney.**—Photographs.
- 297 Wentworth Falls Recreation Reserve-Trust, New South Wales.**—Photographs of reserve.
- 298 Woolcott, W. C., 6 Bridge-st., Sydney.**—Photographs.
- Class 14.—Mathematical and Philosophical Instruments.**
- 299 Russell, H. C., Government Astronomer, New South Wales.**—Meteorological instruments.
- 300 Wiesener, T. F., 334 George-st., Sydney.**—Scientific instruments.
- SURVEYOR'S OUTFITTER.**
-
- STEAM FACTORY:**
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Class 15.—Maps, and Geographical and Cosmographical Apparatus.

301 Beel, T. C., 439 Oxford-st., Sydney.—Centennial almanac.

302 Department of Lands, Sydney.—Maps.

303 Higinbotham & Robinson, 99 Pitt-st., Sydney.—Maps.

304 Holt, Elizabeth J., 35 Barcom-st., Sydney.—Map of New South Wales.

305 Knaggs, R. C., & Co., Hunter-st., Newcastle.—Map.

306 Picturesque Atlas Publishing Co. Ltd., 14 Wynyard-square, Sydney.—Maps.

307 Reid, Florence, Puckawidgee, Conargo.—Map of England and Wales.

308 Sands, J., George-st., Sydney.—New atlas of Australia.

309 Year Book of Australia Ltd., 374 George-st., Sydney.—Mineral map of Australia.

III.

Furniture and Accessories.

Class 16.—Furniture.

310 Alcock and Co., 128 George-st., Sydney.—Billiard table and fittings.

311 Aneityum Saw Mill Co., The, New Hebrides.—Exhibit.

312 Anschau, J., Lismore.—Inlaid table-tops (2), made from Richmond River woods.

313 Emms, J., Kempey.—Rustic garden seat, rustic hat stand, rustic fern pots, rustic chair, rustic pot stand.

314 Gough, J., 289 Elizabeth-st., Sydney.—Pine table, stained to imitate foreign woods.

315 Hodgson, H. W., Elizabeth-st., Sydney.—Venetian, gauze, and other window blinds.

316 Hurlbert, E., 46 Darlington-road, Darlington.—Billiard table (full size), made of colonial black-wood ; carved billiard table fittings.

317 Middleton, J., Beardy-st., Armidale.—Book-case (early English), escrioire (early English).

318 Neve, W., Hunter-st., Newcastle.—Furniture.

319 Railton, L., Auburn-st., Goulburn.—Side-board, executed in fretwork, in walnut, oak, holly, and camphor woods.

320 Rutter, S., Gas Works, Armidale.—Potchomania chess table.

321 Stokes, A. (care of W. J. Sloan, West Maitland).—Chest of drawers made by an apprentice, twenty years of age.

322 Venn, J. G., 200 Castlereagh-st., Sydney.—Model suite of seven pieces—couch, two large chairs, four small chairs.

323 Wallach Bros., York-st., Wynyard-square, and Clarence-st., Sydney.—Gothic furniture for a complete bedroom, diningroom, library, parlour.

324 Wormald, T., 334 Elizabeth-st., Sydney.—Venetian blinds, wire gauze blinds, spring roller blinds.

Class 17.—Upholsterers' and Decorators' Work.

325 Aldenhoven, W., 74 Hunter-st., Sydney.—Picture frames.

326 Beaumont, W., Victoria Terrace, Miller's Point, Sydney.—Carved picture frame.

327 Board, W. C., 4 Hegerty's Buildings, Bourke-st., Waverley.—Picture frame (oval), made of 300 separate pieces of wood.

328 Jones, T., and Co., 65 Macquarie-st. South, Sydney.—Venetian blinds, wire blinds.

329 Lorenzini, A., Northfield Chambers, Phillip-st., Sydney.—Art decorations.

330 Milson, F., Bowra, near Albury.—Rustic frame.

331 Pacey, S. G., 290 Castlereagh-st., Sydney.—Imitations of various woods, imitations of various marbles.

332 Phillips, C., West Maitland.—Imitations of marble, granite, and wood.

333 Railton, L., Auburn-st., Goulburn.—Picture-frame, made of colonial rosewood and bean-tree ; picture-frame in tallow wood, etc.

334 Wallach Bros., York-st., Wynyard-square, and Clarence-st., Sydney.—Upholstery.

335 Ware, J. E.—Hay panels, to represent oak, cedar, and satinwood.

Class 18.—Carpets, Tapestry, and other Stuffs for Furniture.

336 McCullagh, J. S., Wardell, Richmond River.—Macramé lace mantel valance, and pair macramé lace brackets, mounted on plush.

337 Read, J. C., Governor, Sydney Gaol.—Mats and matting, manufactured by the prisoners in the gaol.

Class 21.—Goldsmiths' and Silversmiths' Work.

338 Jones, E., 11 Hunter-st., and Royal-arcade, Sydney.—Silver-work.

339 Smith, R. B., J.P., M.P.—Silver statuette, *fac simile*, in miniature, of Captain Cook's statue.

340 Toose, W. H., 418 George-st., Sydney.—Silversmiths' work.

Class 23.—Clocks and Watches.

341 Porter, W., 9 Stanley-st., Sydney.—Time-piece, made by the exhibitor.

Class 24.—Perfumery.

342 Adger, J. H., 131 Elizabeth-st., Sydney.—Soaps and toilet requisites.

343 Melhuish, T. B., 134 William-st., Sydney.—Toilet preparations.

Class 25.—Leatherwork, Fancy Articles, and Basketwork.

344 Chittick, Jane, Fair View, Robertson.—Fancy leatherwork.

345 Colemane, A. J., Cootamundra.—Wood carving.

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- 846 Gates, Georgina M., Burrowa-st., Young.—Collection of fancy work.
847 Levy, Rose, 443 Bourke-st., Sydney.—Picture in human hair.
848 Morgan, J., Paddington-st., Paddington.—Carving in shell and stone.
849 Packman, H., 42 Park-st., Sydney.—Basket-ware.
850 Powne, H., Oxford-st., Sydney.—Bracelets from native seeds
851 Rowe, Mrs. Nora G., "Quambi," Currawarna, via Wagga Wagga.—Fancy leatherwork.
852 Rudd, Miss Jessie, 225 Devonshire-st., Sydney.—Wooden and ivory beads, carved woods, etc.
853 Russell, J. H. M., John-st., Marrickville.—Patent money-box.
854 Thompson, G., 67 Elizabeth-st., Waterloo.—Pearl shell buttons, sleeve links, &c.
855 Webb, J., West Maitland.—Rustic-work vases.

IV.

Fictile Manufactures, Glass, Pottery, &c.

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- Class 26.—Crystal, Glass, and Stained Glass.
856 Ashwin & Falconer, 314 Pitt-st., Sydney.—Stained glass window.
857 Goodlett & Smith, 493 George-st., Sydney.—Stained glass window, coloured glass door
858 Lyon, Wells, Cottier & Co., 179 Liverpool st., Sydney.—Stained glass window, specimens of domestic work.
859 Pownall, H., 23 Market-st., Sydney.—Engraved glassware.
860 Tatham, H., 76 Mullens-st., Balmain.—Glass exhibits under shades.
861 Webb, F. P., 490 George-st., Sydney.—Engraved glassware, etched glassware, painted glassware.
Class 27.—Pottery.
862 Cook, E., Addison-road, Marrickville.—Terracotta ware, &c.
863 Forsyth, J., and Sons, High-st., North Willoughby.—Bricks, fire bricks, terra-cotta, specimens of pottery, clays, and shale.
864 Goodlett & Smith, 493 George-st., Sydney.—Sanitary ware, tiles, pipes, etc.
865 Hall and Silcock, Waratah.—Collection of general potteryware.
866 Hillcoet, A., East Maitland.—Collection of pottery.
867 Hughes, S., Burwood, Newcastle.—Drain pipes.
868 Paul, J., Waterloo.—Earthenware, sanitary ware, etc.
869 Phoenix Pottery Co. Ltd., North Willoughby, Sydney.—Bristol and Rockingham ware.

V.

Textile Fabrics, Clothing, and Accessories.

- Class 31.—Woollen Yarn and Fabrics.
870 Summerfield & Co., Pitt-st., Sydney.—Woollen tweeds.
871 Technological Museum Committee of Sydney.—Specimens illustrating woollen manufactures of New South Wales and Gt. Britain.
- Class 32.—Silk and Silk Fabrics.
872 Harkness, Maria E., Grafton.—Raw silk, wound off cocoons.
873 Marcolino, P., Grafton.—Raw silk.
874 Thorn, G., Castle.—Raw silk.
- Class 34.—Lace, Net, Embroidery, and Trimmings.
875 Alford, Alice B., 15 Princes-st., Sydney.—Lace designs.
- 876 Armstrong, M. A., 56 Hargrave-st., Sydney.—Knitted counterpane.
877 Baillie, H. J., Taylor-st., Parramatta.—Lace and needlework.
878 Burton, R., 363 George-st., Sydney.—Fancy needlework.
879 Calvert, Mary M., Woodlands, Marrickville.—Pair of worked braces.
880 Choquenot, A., North Shore.—Cushion needlework.
881 Cochrane, Jane A., Coonamble.—Tatted counterpane, etc., the work of a girl totally blind.
882 Evans and Creeth, 8 Royal-arcade, Sydney.—Fancy needlework, poonah painting, etc.
883 Hatton, W., H.M.S. "Diamond," Sydney.—Macramé work.
884 Ladmore, M. B., Bateman's Bay.—Crotchet work.
885 Metcalfe, M., Deniliquin, Sydney.—Lace and work.

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- 386 Moore, Eliza, "Quandong," Darlington.—Oil-painted tea cosy on velvet.
- 387 O'Neill & Corcoran, Misses, St. Mary's R. C. School.—Mantel drape.
- 388 Read, Nina, 47 George-st., Redfern.—Embroidery.
- 389 Stevenson, J. M., Cambridge-st., Stanmore.—Knitted counterpane.
- 390 Taylor, S., Mount Pleasant Avenue, Burnwood.—Crazy-work quilt.
- 391 Vincent, E. B., Cooper-st., Neutral Bay.—Lace work.
- 392 Wynne, Miss.—Cushion.

Class 35.—Hosiery and Underclothing and Accessories of Clothing.

- 393 Genty, Eugenie, 140 William-st., Sydney.—Ladies' corsets.
- 394 Sullivan, J., 541 George-st., Sydney.—Umbrellas, sunshades, &c.

Class 36.—Clothing for Both Sexes.

- 395 Abbey, W., and Co., 386 George-st., Sydney.—Boots.
- 396 Commissioners for New South Wales.—Clothing, boots, and shoes.
- 397 Jet Boot Manufacturing Co., Pitt-st., Sydney.—Varnished boots.
- 398 Johnson, G., & Sons, Park-st., Sydney.—Boot uppers.

- 399 Roth, R. H., 42 College-st., Sydney.—Children's clothing.
- 400 Skardon, G., William-st., Bathurst.—Boots and shoes.
- 401 Solomons, S., 292 Riley-st., Sydney.—Shoes and slippers.
- 402 Summerfield & Co., 235 Pitt-st., Sydney.—Hats, boots, clothing.
- 403 Taylor, E., & Co., 22 York-st., Sydney.—Boots, shoes, and slippers.

Class 38.—Portable Weapons and Hunting and Shooting Equipments.

- 404 Amos, J. R., Minnie Rose-st., Enfield.—Collection of fishing tackle.

Class 39.—Travelling Apparatus and Camp Equipage.

- 405 Arrighi, L., 38 Hargraves-st., Paddington.—Meteorological instruments—barometers, thermometers, aneroids, etc.
- 406 Ecclestone, N. C., Snowy River, Monaro.—Rug (white opossum skin).
- 407 McCallum, A., Yass.—Rugs (platypus and opossum skin).
- 408 Tost and Bohu, 60 William-st., Sydney.—Fur travelling rugs.
- 409 Wiesener, T. F., 334 George-st., Sydney.—Portable instruments.

VI.

Raw and Manufactured Processes and Products.

- Class 41.—Products of the Cultivation of Forests and of the Trades appertaining thereto.
- 410 Aneityum Sawmill Co., 3 Parramatta-road.—Timber from the New Hebrides.
- 411 Anschau, J., Lismore.—Specimens of Richmond River timbers (in case).
- 412 Bridge, W., West Tamworth.—Dressed cypress pine mouldings, tongue and groove boards, etc.
- 413 Carter, E., Wardell, Richmond River.—Cedar doors, made of Richmond River cedar; parquetry, made of Richmond River timbers, etc.
- 414 Clarence River Pastoral and Agricultural Society, Grafton.—Collection of timbers from the Clarence River district.
- 415 Commissioners for New South Wales, Sydney.—Timbers applicable to useful purposes; parquetry.
- 416 Cross, G. J., Manning River.—Specimens of colonial timbers.
- 417 Dangar, Watt & Co., Kempsey, Macleay River.—Collection of colonial timbers.
- 418 Hibbard and Hanins, Port Macquarie.—Collection of colonial timbers.
- 419 Hudson Bros. Ltd., Granville.—Building materials; also coach builders' material, of New South Wales timbers.

- 420 John, T., Kurrajong, via Richmond.—Collection of timbers for building and cabinetwork, etc.; shingles, firewood, charcoal.
- 421 Johnston, A., Kiama.—Butter kegs.
- 422 Laurie Bros., Camden Haven.—Colonial hard and soft woods, from the Camden Haven district.
- 423 Laurie, J., Laurieton.—Collection of colonial timbers.
- 424 Matthews, J. T., Boat Harbour, Bellinger River.—Timbers.
- 425 Macleay River Agricultural Society, Kempsey.—Collection of timbers.
- 426 Minister of Mines, Sydney.—Timbers.
- 427 Plummer, S., Taree.—Collection of timbers from the Manning River district.
- 428 Price, S., Redmond-st., Leichhardt.—Tool-handles, made from colonial timbers.
- 429 Elbee, H. M., West Maitland.—Door and mantel-shelf.
- 430 Technological Museum, Sydney.—Gums, resins, &c.
- 431 Ware, J. E., Hay.—Panels painted to represent oak, cedar, and satinwood.
- 432 Warren, W. H., Wh. Sc., M.I.C.E., Professor of Engineering, Sydney University.—Tested specimens of New South Wales timbers.

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- Class 42.—Products of Hunting, Shooting, Fishing, and Spontaneous Products. Machines and Instruments connected therewith.**
- 433 **Coleman, E.**, Lismore, Richmond River.—Stuffed birds from Richmond River district, aboriginal weapons and utensils, etc.
- 434 **Commissioners for New South Wales.**—Natural history specimens.
- 435 **Holt, R. W. L.**, Waratah.—64 bottles reptiles, snakes, etc.
- 436 **Lawrence, P.**, 20 Hunter-st., Sydney.—Furs, birds, eggs, etc.
- 437 **M'Arthur, A., and Co.**, York-st., Sydney.—Cabbage-tree grass used for making cabbage-tree hats.
- 438 **Technological Museum.**—Substances used as food by aborigines of New South Wales.
- 439 **Tost and Rohu**, 60 William-st., Sydney.—Mounted birds.
- Class 43.—Agricultural Products not used for Food.**
- 440 **Austin and Millear**, Wanganella, Deniliquin.—Merino wool, greasy.
- 441 **Balfour, Hon. J.**, M.L.C., Round Hill, Culcairn.—12 fleeces rams' wool, greasy.
- 442 **Beaumont, J. T.**, Marengo.—Wool.
- 443 **Bettington, J. B.**, Brindley Park, Merriwa.—Bale fleece wool, greasy; 6 fleeces rams' wool.
- 444 **Bruce, G.**, Loombah, Molong.—Bale wool, containing 76 fleeces, greasy; 12 fleeces wool, do.
- 445 **Busby, A.**, Cassillis.—12 fleeces wool.
- 446 **Chappell, F.**, Bridgewater, Dundee.—Bale scoured wool.
- 447 **Chappell, J. R.**, Dundee, New England.—Bale wool, fine merino combing, scoured.
- 448 **Cox, Frederick and Alexander**, Oakfield, Mudgee.—Merino wool, stud breeding ewes'.
- 449 **Cox, R.**, Marrar, Junee.—Bale wool, greasy.
- 450 **Cudmore Bros.**, Avoca, Wentworth.—Wool.
- 451 **Currie and M'Kinnon**, Puckawidgee, Conargo.—Bale wool, greasy, merino, skirted; 12 fleeces wool, ewes', unskirted.
- 452 **Danger Bros.**, Uralla.—Wool.
- 453 **Devery, F.**, Gerringong.—Rye grass seed.
- 454 **Drummond, Marion**, Bookham.—Bale wool, merino, greasy.
- 455 **Evans, R.**, Kiah Lake, Cooma.—Two bales wool, greasy.
- 456 **Faithfull, A. L.**, Springfield, Goulburn.—Fleeces of wool.
- 457 **Harkness, W.**, Lincluden, Cooma.—12 fleeces wool, merino.
- 458 **Hay, G. D.**, Woodville, Crookwell.—Bale wool, hoggets'; merino, skirted; do., ewes', merino, skirted.
- 459 **Haydon, B.**, Bloomfield, Blandford.—Wool.
- 460 **Horsley, R. F.**, Yabtree, Gundagai.—12 fleeces wool, rams', greasy; 12 do. do.
- 461 **Hume, F. W.**, Tarengo, Burrowa.—12 fleeces wool, merino, rams'; 12 do., do., ewes'.
- 462 **James, C. H., and Gray**, Kentucky, Corowa.—1 bale wool, ewes', greasy; 12 fleeces wool, ewes', greasy; 12 do., rams', greasy.
- 463 **Jardine, W.**, Curry Flat, Cooma.—12 fleeces wool, greasy.
- 464 **Lethbridge, G. L.**, Bridgeman, Singleton.—6 fleeces wool, greasy.
- 465 **Litchfield, J.**, Hazeldean, Cooma.—12 fleeces wool, merino, ewes', greasy.
- 466 **Macdonald, J. M. L.**, Wallabadah, Quirindi.—Bale wool, merino, ewes', greasy; do., do., ewe hoggets', greasy.
- 467 **Manchee, J. C.**, Glen Moan, Willow Tree.—6 fleeces wool, merino, ewes', greasy; 6 do. do., rams'.
- 468 **Mulholland, G. G.**, Oura, Wagga.—Bale wool, greasy, combing.
- 469 **McGregor & Co.**, Silverton.—Wool.
- 470 **Onslow, Mrs. A.**, Camden Park, Menangle.—12 fleeces wool, merino, ewes', greasy.
- 471 **Pearse, T. S., and Co.**, Orange.—Samples of wool from sheep owned by A. L. Faithfull, Springfield, Goulburn, and J. Lee, Molong.
- 472 **Peel River Land and Mineral Co. Ltd.**, Goonoo Goonoo.—Bale wool, lambs'; 12 fleeces wool, ewes'; 12 do., rams'.
- 473 **Richardson, T. L.**, Murrawombie, Nyngan.—6 fleeces wool, ewe hoggets', greasy.
- 474 **Rouse, G.**, Biragambal.—Wool.
- 475 **Sinclair, P.**, Nubba, Wallendeen.—5 fleeces wool, rams'; 8 do., ewes'; 2 do., lambs'.
- 476 **Sloane, A.**, Mulwala.—1 bale wool, merino, lambs', scoured; 1 do. do., scoured; 1 do. do., ewes', greasy; 12 fleeces wool, do. do.
- 477 **Suckling, J. L.**, Barsham, Blandford.—Wool, merino.
- 478 **Suttor, G. R., and H. C.**, Bathurst.—12 fleeces wool, ewes', greasy.
- 479 **Technological Museum.**—Indigenous fibres.
- 480 **Thomas and Co.**, John, Dubbo.—Scoured wool.
- 481 **White, F. R.**, Harben Vale, Blandford.—12 fleeces wool, black merino.
- 482 **Wilson and Hopkins**, Errowanbane Carcoar.—Bale woolale wool, merino ewes', greasy; 1 do., do., lambs', greasy.
- 483 **Woodhouse, E. B.**, Mount Gilead, Campbelltown.—10 fleeces wool, Romney Marsh ewes'.

TOBACCO.

- 484 **Ah Chee, Tumut.**—Tobacco seed of two descriptions and leaf.
- 485 **Beachem, W.**, George-st., Bathurst.—Tobacco leaf.
- 486 **Beck, R.**, Gilmore.—Tobacco leaf.
- 487 **Brown, E. G.**, Tumut.—Tobacco leaf.
- 488 **Commissioners for New South Wales.**—Trophy of tobacco.
- 489 **Cordow, W. F.**, Vacy, Paterson River.—Tobacco leaf.
- 490 **Emery, D. J.**, Gilmore.—Tobacco leaf.
- 491 **John, T.**, Kurrajong via Richmond.—Tobacco leaf.
- 492 **Klein, W. F.**, Gilmore.—Tobacco leaf.
- 493 **Richards, J.**, Gilmore.—Tobacco leaf.
- 494 **Smith, H. S.**, 97 Castlereagh-st., Sydney.—Tobacco leaf, manufactured tobaccoe.
- 495 **Wolfe, Gorrick and Co.**, West Maitland.—Tobacco leaf, manufactured tobacco.

Melbourne and Sydney.

Nicholson and Company,

NEW SOUTH WALES EXHIBITS.

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For the Grandest Stock of Pianos in Australia.

- Class 44.—Chemical and Pharmaceutical Products.
- 496 Anti-Ant Wood Preservative Co., The 34 Clarence-st., Sydney.—A solution for the destruction of the white ant, etc.
- 497 Australian Kerosene Oil and Mineral Co., Ltd., Gresham-st., Sydney.—Products of kerosene shale, including oils etc. Agents: J. O'land Moody & Co., 76 William-st., Melbourne.
- 498 Barrett and Co., 55 Buckingham-st., Sydney.—Aerated waters and mineral waters.
- 499 Behan, J., M'Evoy-st., Sydney.—Horse and cattle medicines.
- 500 Caunt, W. F., George-st., Camperdown.—Various medical preparations.
- 501 Coleman and Sons, Cootamundra.—Eucalyptus oil, soap, etc.
- 502 Ducasse, Josephine, Hunter-st., Sydney.—Artificial flowers, plants, etc.
- 503 Fountain, T., Lorne, West Maitland.—Millet, and brooms made therefrom.
- 504 Glover, G. S., Williams' River.—Millet and brooms made therefrom.
- 505 Hayter, J. T., Burrawang.—Collection of grass seeds.
- 506 Hewitt, T. G., Grafton.—Sea Island cotton, grown at Grafton.
- 507 Geddes, A., Springvale, Botany.—Gelatines, glues.
- 508 Gregory, A., and Co., Market-st., Sydney.—Gregorine (preparation of vaseline).
- 509 Hogben, E., Kogarah.—Balsam of aniseed.
- 510 John, T., Kurrajong, via Richmond.—Tanning barks, fibres, etc.
- 511 Jones, W., Wagga.—Soap.
- 512 Kennedy, Mary B., Wonnaminta Station, Wilcannia.—Dried grasses, trees, and shrubs used as fodder for sheep, horses, and cattle.
- 513 King, P. G., M.L.C., Double Bay, Sydney.—Tar extracted from rosewood.
- 514 Lane, A. C. O., Clinton-st., Orange.—Soap.
- 515 Marshall Bros., 410 George-st., Sydney.—Pharmaceutical preparations.
- 516 Melhuish, T. B., William-st., Sydney.—Pharmaceutical preparations.
- 517 Mulholland, J., March-st., Orange.—Soap.
- 518 M'Gregor, A. and A. D., Bolwarra.—Broom millet, and brooms made therefrom; millet heads, lucerne hay.
- 519 M'Govern Mrs. A., Soap Works, Goulburn.—Soap.
- 520 Palmer Brothers, 33 Shepherd-st., Sydney.—Brushware.
- 521 Parker, P. J., Bathurst.—Soap, glue, and bone dust.
- 522 Perdriau and Co., Erskine and Clarence Sta., Sydney.—Collection of manufactured india-rubber goods.
- 523 Piper and Co., Tamworth.—Soap and medical preparations.
- 524 Ponosotzen Fluid Co., Hunter-st., Sydney.—Patent washing fluid.
- 525 Pratt, A. C., Raymond-terrace.—Millet, and brooms made therefrom.
- 526 Sohn, S., Kianecane, near Wardell.—Soap and candles.
- 527 Taylor, C. E., Goonellebah, Lismore.—Cotton and other fibres.
- 528 Toose, W. H., George-st., Sydney.—Plate powder.
- 529 Watson and Young, Albury.—Aerated and mineral waters.
- 530 Williams River Broom Co. Ltd., Seham.—Millet, and brooms made therefrom.
- 531 Wright, F., Lane, Sydney.—Brushware.
- Class 46.—Leather and Skins.
- 532 Alley, G. N., Broughton Creek.—Skins.
- 533 Arnold, A. E., Arthur-st., Marrickville.—Compressed leather.
- 534 Baxter and Co., Goulburn.—Leather.
- 535 Beggs and Son, Paddington.—Leather.
- 536 Byrne and Fischer, Canterbury.—Leather.
- 537 Dennis and Co., Jeffrey, Canterbury.—Leather.
- 538 Dunn, T. J., Grose-st., Glebe.—Leather.
- 539 Forsyth, J., and Sons, George-st. West, Sydney.—Leather.
- 540 Grant, W., Bathurst.—Leather.
- 541 Hayward, G., Kelso.—Leather.
- 542 Linsley, W. F., George-st., Windsor.—Leather.
- 543 Loder, T. J. Taralga.—Tanned marsupial skins.
- 544 Ludowici, J. C., Swan-st., Sydney.—Leather belting and machine leathers.
- 545 Luland, F. J., Botany.—Leather.
- 546 Moore, A. H., Loftus-st., Sydney.—Leather.
- 547 M'Namara, H., Darling Harbour, Sydney.—Basil.
- 548 Young, P. N., & Co., Auburn.—Leather.

VII.

Machinery, Apparatus, and Processes used in the Mechanical Industries.

- Class 47.—Agricultural Implements and Processes used in the Cultivation of Fields and Forests.
- 549 Cohen, D., and Co. West Maitland.—Plough.
- 550 Giles, A., Upper Temora.—Ploughshare.

- 551 Green, T., Mitchell's-road, Alexandria.—Bone dust.
- 552 Hudson Bros. Ltd., Clyde Engineering Works, Granville.—Agricultural machinery; the "Austral" refrigerator.
- 553 Maiden, G., 93 Pitt-st., Sydney.—Gate fitted with Maiden's patent hinge.
- 554 Manners, J., Taree.—Agricultural implements.

Melbourne and Sydney.

- 555 Macbrair, Osborn and Co., 249 Clarence-st., Sydney.—Hack's patent stump extractor.
 556 Page, G., Grafton.—Corn-stalk cutter.
 557 Ritchie, W., Granville.—Ploughs and horse hoe.
 558 Sydney Meat Preserving Co. Ltd., Sydney.—Fertiliser.
 559 Taylor, A., Auburn.—Hydraulic stump extractor.
 560 Trotter, J. M., Port Macquarie.—Ploughs and stripper.

- Class 48.—Apparatus and Processes used in Agricultural Works, and in Works for the Preparation of Food, Irrigation of Land, &c.**
 561 Gow, W., John-st., Annandale, Sydney.—Dairy utensils and general woodenware.

- Class 49.—Implements, Models, and Plans connected with Irrigation of Land.**
 562 Hudson Bros. Limited, Granville.—Wind-mills, iron tubing, etc.
 563 Walter, H. S., Townsend-st., Albury.—Model of windmill.

- Class 51.—Machines and Apparatus in general.**
 564 Bailey, J., 155 Clarence-st., Sydney.—Lawrence's patent hydraulic lift.
 565 Bowrey Bros., 294 Pitt-st., Sydney.—Weighing machines.
 566 Harrison, L., Marrickville, Sydney.—Washing machine.
 567 Hudson Bros. Ltd., Granville.—Assortment of foundry work and forgings.
 568 Lutton, J., and Son, Hay-st., Sydney.—Castings and parts of machinery.
 569 Macgregor, Harris and Co., 266 George-st., Sydney.—Wool-washing machine, sheep-shearing machine.
 570 Smith, H. T., Kent-st., Sydney.—Aerated water machinery.
 571 Smith, T. K., George-st., Sydney.—Aerated water machinery.
 572 Wolsey Sheep Shearing Machine Co. Ltd., Phillip-st., Sydney.—Patent sheep shearer.
 573 Wynne-Hudson Rabbit Trapping, Preserving, Curing, and Exporting Co. Ltd., 8 O'Connell-st., Sydney.—Rabbit catcher.

Class 52.—Machine Tools.

- 574 Melhuish and Sons, Springhill.—Bundle press, bag-filler for chaff.
 575 Zollner, S., Kent-st., Sydney.—Blacksmiths' and house bellows.

- Class 57.—Apparatus and Processes used in Paper Making, Dyeing, and Printing.**
 576 Australian Type-Founding Co. The, 91A Clarence-st., Sydney.—Printing type, and appliances for making same.

- 577 Fairfax, J., and Sons, "Herald" Office, Sydney.—Printing process.

- 578 Phillip-Stephan Photo.-Litho. and Typographic Co. Ltd., The, 155 Clarence-st., Sydney.—Lithographic machine.

Class 58.—Machines, Instruments, and Processes used in various Works.

- 579 Jones, E., 11 Hunter-st., Sydney.—Medal press.

Class 59.—Carriages and Wheelwrights' Work.

- 580 Anderson, R., 43 Parramatta-road, Sydney.—Perambulators.
 581 Angus, W. A., 99 and 101 Castlereagh-st., Sydney.—Patent pheton.
 582 Bassett, D., Auburn.—Cart and waggon axles.
 583 Bennett and Wood, 116 Clarence-st., Sydney.—Bicycles, tricycles, etc.
 584 Berwick, W. H., 100 Redfern-st., Sydney.—Buggy and sulky.
 585 Cobb and Co., Bathurst.—Buggies.
 586 Commens, G. W., Wollongong.—Buggy.
 587 Fitness, A. W., West Maitland.—Single-seated buggy.
 588 Haining and Schimmel, 207 Castlereagh-st., Sydney.—Pheton and buggy.
 589 Hulbert, J., Parramatta-road, Annandale.—Hose, wheel cart.
 590 Huxley, T. J.—Gig and sulky.
 591 Killen, W., Lismore.—Buggy.
 592 Kritsch, S., Grafton.—Buggy.
 593 Midgley, R. S., St. Peter's, Sydney.—Buggy.
 594 Mitchell, W., Richmond.—Buggies and gig.
 595 M'Fadden, H., jun., Singleton.—Buggy.
 596 M'Fadden, H., and Son, Singleton.—Wagon.
 597 Northumberland Steam Coach and Buggy Factory, The, West Maitland.—Buggy.
 598 Reid, D., Murramburrah.—Spring cart and wagon wheels.
 599 Smidt, C. A., Grafton.—Buggies.
 600 Smyth, G. A., West Maitland.—Wheelwrights' material.
 601 Spring, J., Bourke.—Patent expansion wheel.
 602 Toohey, J. E., Goulburn.—Buggy.
 603 Treanor, M., Bathurst.—Buggy.
 604 Vial, W., and Son, 181 Castlereagh-st., Sydney.—Patent buggy.
 605 Wilkins and Kennedy, Dubbo.—Buggy.
 606 Willacy and Hornby, 172 Cameron-st., Paddington.—Centennial sand distributor.
 607 Winter, M., West Maitland.—Farm cart.
 608 Wylie, F., Bowral.—Break.

Class 60.—Harness and Saddlery.

- 609 Barker, C., Narrabri.—Stockwhip, handle carved.
 610 Bates, W., Woollahra.—Horse-shoes.
 611 Blackburn and Co., 125 York-st., Sydney.—Saddlery and harness.

Campbell, Guthridge & Co.,

NEW SOUTH WALES EXHIBITS.

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- 612 Browne, J., Wollongong.—Saddles and harness.
 613 Dangar, W. T., Kempsey.—Saddles.
 614 Falconer, J. L., Cootamundra.—Saddles.
 615 Gregory, A., and Co., Market-st., Sydney.—Saddlery and harness.
 616 Hickey, B. R., Temora.—Saddle.
 617 Howitt, J., Nowra.—Buggy harness and Saddlery.
 618 Jacka, J., Hay.—Saddles.
 619 Mitchell, J., Richmond.—Horse-shoes.
 620 Mongan, A., Swift-st., Albury.—Horse-shoes.
 621 Morrissey, T., South Grafton.—Horse-shoes.
 622 Pitman, W., Rushcutter's Bay, Sydney.—Horse-shoes.
 623 Simmonds, F., Redfern.—Horse-shoes.
 624 Simpson, W. H., and Son, 383 George-st., Sydney.—Saddlery and harness.
 625 Stewart, J., Darlinghurst-road, Sydney.—Horse-shoes.
 626 Wilkins & Kennedy, Dubbo.—Saddles and whips.
 627 Young, M., Camden.—Saddlery.

Class 61.—Railway Apparatus.

- 628 Cowdery and Thomas, Phillip-st., Sydney.—Hydra-headed rails and sleepers.
 629 Evans and Wilson, Cleveland-st., Redfern.—Hydra-headed rails and sleepers.
 630 Hogben, E. K., Kogarah.—Model wheel for rolling stock.
 631 Minto, J., Kensington-road, Sydney.—Axle box and lubricating apparatus.
 632 Korff & Mulholland, Oura, Wagga.—Combination end-loading sheep and cattle truck.
 633 Oakman, J. C., 17 O'Connell-st., Sydney.—Patent railway automatic buffer coupler.
 634 Swain, W. H., 110 Garden-st., Alexandria, Sydney.—Model railway wagon.
 635 Wilkinson, W. B., Sydney.—Combination truck to carry any class of stock or goods.

Class 62.—Electric, Pneumatic, and other Apparatus and Processes.

- 636 Electric Telegraph Department, Sydney.—Electrical apparatus for military purposes.
 637 Kopsch, C. F. G., The Boulevard, Petersham.—Telephones.

Class 63.—Apparatus and Processes of Civil Engineering, Public Works, and Architecture.

- 638 Anderson and Lamont, Wagga Wagga.—Model of improved spray bath.
 639 Ackett, H., East Maitland.—Bricks.
 640 Boyd, F., 98 Pitt-st., Sydney.—Patent window fastener.
 641 Buchanan, J., Elizabeth-street, Sydney.—Woodwork, turnery, etc.
 642 Brady, R., Darling-st., Glebe, Sydney.—Roller shutters.

- 643 Browne, T., West Maitland.—Freestone for ornamental work.

- 644 Chant and Pateman, Yound.—Dam excavator.

- 645 Hyndman and Craig, 87 King-st., Newtown, Sydney.—Galvanised-iron columns, etc.

- 646 James, C. H., and Gray, Kentucky, Corowa.—Bluestone for building or road metal, quarried on the above station.

- 647 Laing, J., West Kempsey.—Turned woods.

- 648 M'Donald, J. A., Albany-road, Petersham.—Expansion rollers for large iron bridges.

- 649 Patent Asphaltum Co. of New South Wales Ltd., 248 Pitt-st., Sydney.—Asphaltum tiles, etc.

- 650 Pridham, T., Arpington-st., Ashfield.—Drawing of improved iron reservoirs or tanks.

- 651 Ritchie, R. F., Auburn.—Photographs of lattice girder bridge for Snowy River.

- 652 Tall, G., Bathurst-st., Sydney.—Locks, saws, etc.

- 653 Turton, F., East Maitland.—Building bricks.

Class 64.—Navigation and Life Saving.

- 654 Anscheu, J., Post and Telegraph Master, Lismore.—Model of lighthouse at South Head of Sydney Harbour, made of soft meerschaum stone.
 655 Banks, J. M., 48 Pitt-st., Sydney.—Improved ships' lamps.
 656 Berg, C., Ferry-st., St. Peter's, near Sydney.—Model of full-rigged ship.
 657 Bilbe, J., 62 Curtis-road, Balmain.—Self-righting life-boat.
 658 Carter, J. J., North Shore.—Models of boats.
 659 Clarence and Richmond River Steam Navigation Co. Ltd., Grafton Wharf, Sussex-st.—Models of the company's steamers.
 660 Dawson, J. H., Sussex and Margaret Sts., Sydney.—Sculls and oars.
 661 Department of Public Works, Sydney.—Model of Cockatoo Dock.
 662 Ellis, H. G., Balmain.—Canvas dingy.
 663 Fairfax, A., George-st., Sydney.—Model of yacht.
 664 Green, H. T., Milson's Point, North Shore, Sydney.—Boats and models of boats.
 665 Hunter-street New Steam Navigation Co., Sydney.—Models of steamers.
 666 Joubert, Ninna, Hunter's Hill, Sydney.—Model of ferry steamer.
 667 Key, G. A., 88 Pitt-st., Sydney.—Model of ferry steamer.
 668 Langham, W., Hunter's Hill, Sydney.—Model of a ship.
 669 Moore, A. H., Loftus-street, Sydney.—Model of yacht.
 670 Mort's Dock and Engineering Co., Sydney.—Models.
 671 M'Leod, A., 87 George-st. North, Sydney.—Brass fittings for yachts and boats.
 672 Newcastle Steamship Co. Ltd., Lime-st., Sydney.—Models of steamers.
 673 O'Sullivan, P., North Shore, Sydney.—Wager boat, etc.

Merchants' and Manufacturers' Agents,

13 William Street, Melbourne.

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- 674** Perdriau, West and Co., Balmain.—Models.
675 Port Jackson Steamship Co., No. 1 Jetty, Circular Quay.—Model of ferry steamer.
676 Reeks, W., 139 Pitt-st., Sydney.—Drawings and models of yachts and sea-going vessels.
677 Sawyer, R. H., Bourke-st., Waverley.—Model of a ship.
678 Smith, W. H., & Sons, 79 York-st., Sydney.—Models and pictures of ships.
679 Smith, Capt. J. C., 236 George-st., Sydney.—Model of a Chinese junk.

- 680** Stevenson and Son, M., 4 Shelley-st., Sydney.—Sculls and oars.

Class 65.—Materials and Apparatus for Military Purposes.

- 680a** Richardson, Major-General, Sydney.—Military material.

- 681** Williams, W. D. C., Surgeon-major, Victoria Barracks, Sydney.—Ambulance appliances.

VIII.

Alimentary Products.

Class 66.—Cereals, Farinaceous Products, and Products derived from them.

- 682** Ah Chee, Tumut.—Maize.
682a Andrews, J. R., Wanchope.—Maize.
683 Arnold, C. J., Camden.—Maize, rye, etc.
684 Balle, W., Gerringong.—Maize.
685 Ball, I. B., Gundurimba.—Maize.
686 Ball, J., Gundurimba.—Maize.
687 Bassingtonthwaite, J., Larbert, via Braidwood.—Wheat, oats, and barley.
687a Beck, J., Glennie's Creek.—Maize.
688 Beck, R., Gilmore.—Maize and oats.
689 Black, J., Molong.—Wheat, flour, and maize.
690 Blomley, T., Tumut.—Maize.
691 Boothby and Lesson, Southgate.—Maize.
691a Borrowdale, R., Numba.—Maize.
692 Bowden, J., West Maitland.—Maize and barley.
693 Boxsell, J., Culling.—Wheat.
694 Boyd, F. A., Liverpool.—Collection of farm produce.
695 Bradman, C., Cootamundra.—Wheat.
696 Branch, W., Ennis.—Maize.
697 Broadhead Bros., Bungonia.—Collection of farm produce.
698 Brunton, T., and Co., Granville.—Wheat, flour, bran, and pollard.
699 Burns, T., Boat Harbour, Bellinger.—Maize.
700 Buttsworth, J., Windsor.—Maizemeal.
701 Caldwell, S., Young.—Wheat.
702 Campbell, Mrs. S., Numba.—Maize.
703 Carter, E., Wardell.—Arrowroot.
704 Caughey, H., Mudgee.—Wheat and maize.
705 Chew, J. T., Munirgo.—Wheat.
706 Clout, G., Brungle.—Collection of farm produce.
707 Cohen and Levy, Tamworth.—Cornmeal and flour.
708 Cole, J., Young.—Wheat.
709 Conlon, B., Windsor.—Collection of maize in cob, and farm produce.
710 Connolly, T. J., Brunbee.—Maize.

- 711** Connolly, T., son., Berellan.—Maize.
712 Connelly, W., Goulburn.—Flour.
713 Connolly, T., Tenterfield.—Maize.
714 Cooper, W., Jerilderie.—Wheat.
715 Crispin, G., Grafton.—Collection of farm produce.
716 Dalton Bros., Orange.—Wheat and flour.
717 Dickson, T., Tuckerimba.—Maize.
718 Duckham, T., West Maitland.—Maize.
719 Faint, G., Spring Valley.—Wheat and oats.
720 Fraser, A., Broughton Creek—Maize.
721 Garven, J. and A., Palmer's Island.—Maize.
722 Geehan, J., Windsor.—Maize, barley, etc.
723 Gow, S. H., Windsor.—Maize.
724 Grist, J., Peel.—Maize.
725 Guilliford, W., Southgate—Maize.
726 Harris, J., Young.—Wheat.
727 Hawkins, S. F., Southgate.—Maize.
728 Hayes, H., Wagga.—Flour.
729 Hayter, J., Camden.—Collection of farm produce.
730 Haywood, J., Pambula.—Maize.
731 Hemsley, J., Blaney.—Flour.
732 Hermann, A., Wyrrallah.—Maize.
733 Hewitt, T. G., Grafton.—Maize.
734 Hobden, H., and Son, Singleton.—Flour, maize, and maizemeal.
735 Hockey, H., Rockley.—Barley and oats.
736 Houston, J., Brundie.—Maize.
737 Hurst, W., Bathurst.—Wheat.
738 Kelly, J., Ulmarra.—Maize.
739 Kelton, J. L., Bungowannah.—Wheat.
740 Kingham, G., Millthorpe.—Wheat.
741 Laurie, A. T., Gloucester.—Arrowroot.
742 Leabeater, E. D., Carcoar.—Wheat.
743 Lindsay, G., Huntingdon.—Maize.
744 Lindsay, W. S., Huntingdon.—Maize.
745 Loder, G. T., Singleton.—Arrowroot.
746 Looke, J., Woodside.—Maize.
746a Macleay Agricultural Association Kempsey.—Trophy of maize.

- 747 Manson, D., Albion Park.—Maize, wheat, oats, barley, rye, etc.
- 748 Marino, C., Young.—Wheat.
- 749 Memorey, J., Grenfell.—Wheat.
- 750 Miller, T., Tenterfield.—Maize.
- 751 Moffat, J., Armidale.—Wheat.
- 752 Monaghan, F., Morton's Creek.—Maize.
- 753 Morris, J. A., Jerilderie.—Wheat.
- 754 Munro, D., Wyrallah.—Maize.
- 755 Munn, A. L., Merimbula.—Maize and maizeza.
- 756 M'Alister, J., Tumut.—Maize, oats, and wheat.
- 757 M'Alister, R., Tumut.—Maize.
- 758 M'Fetridge, S., Dubbo.—Wheat.
- 759 M'Leod, W. A., Wyrallah.—Maize.
- 760 M'Pherson, J., Wyrallah.—Maize.
- 761 Napier, J., Young.—Wheat.
- 762 Nixon, P. A., Corowa.—Rye.
- 763 Nolan, R., Tenterfield.—Oats.
- 764 Onslow, Mrs. H., Menangle.—Collection of farm and garden seeds.
- 765 O'Sullivan, J., Tumut.—Maize.
- 766 Parish, C., Kempsey.—Maize.
- 767 Phipps, C., Eurunderee.—Wheat.
- 768 Plummer, H., Ulmarra.—Maize.
- 769 Prince, G., Largo.—Maize.
- 770 Quinlan, P., Ulmarra.—Maize.
- 771 Reutter, F., Numba.—Maize.
- 772 Rheinberger, P. J., Mudgee.—Wheat.
- 773 Richardson, J., and Co., Armidale.—Flour and grain.
- 774 Saddler, C., Brushgrove.—Maize.
- 775 Saunders, J., Smith Town, Macleay River.—Maize.
- 776 Scobie, M. and R., West Maitland.—Maize.
- 777 Sheehan, J., Lismore.—Maize.
- 778 Sherry, D., Brushgrove.—Maize.
- 779 Sherlock, D., Richmond River.—Maize.
- 780-Sherlock, J., Wyrallah.—Maize.
- 781 Smith, P., Tuckerimba.—Maize.
- 782 Suters, T., sen., Wanchope.—Maize.
- 783 Sweeny, J., Monteagle, Young.—Wheat.
- 784 Taylor, B., Windsor.—Maize.
- 785 Trees, A. J., Kempsey.—Maize.
- 786 Trees, W. G., Kempsey.—Maize.
- 787 Tremain, W., Bathurst.—Flour and wheat.
- 788 Volckers, H. A., Grafton.—Egyptian corn.
- 789 Wade, J., and Co., Dungog and Sydney.—Maizena and starch.
- 790 Wall, T., Woolomin.—Maize.
- 791 Walsh, S., Forest Reef.—Wheat and oats.
- 792 Warlton, T., Eglinton.—Maize.
- 793 Watterson, P., Millthorpe.—Wheat and oats.
- 794 Wearne and Sons, Cootamundra.—Flour and wheat.
- 795 White, Ellen, Young—Wheat.
- 796 Whiteman, T., Young.—Wheat.
- 797 Whitney, W., Gundurimba.—Maize.
- 798 Whitney, W., Richmond River.—Maize.
- 799 Whitmee, W., Orange.—Wheat.
- 800 Wise Bros., Jerilderie.—Wheat.
- 801 Worboys, T. C., Orange.—Wheat.
- Class 68.—Fatty Substances used as Food.**
Milk and Eggs.
- 802 Albion Park Dairy Co., Albion Park.—Butter.
- 803 Allen, J., Canberwarra.—Butter.
- 804 Allen, W., Bega.—Cheese.
- 805 Alexander, J., Gerringon.—Butter and cheese.
- 806 Andrews, J. R., Wanchope.—Butter.
- 807 Antill, J. M., Jun., Picton.—Butter.
- 808 Badgery Bros., Sutton Forest.—Butter.
- 809 Bailey, W., Gerringong.—Butter.
- 810 Bartlett Bros., Wild's Meadows.—Butter.
- 811 Beck, J., Glennie's Creek.—Butter.
- 812 Beckwith, J., Bega.—Cheese.
- 813 Bell, J., Robertson.—Butter.
- 814 Bennett, A., Camden.—Butter.
- 815 Bice, Z. H., Camberwarra.—Cheese.
- 816 Binks, T., Camberwarra.—Cheese.
- 817 Black Bros., Bebbenluke.—Cheese.
- 818 Blencowe, T., Wild's Meadows.—Butter.
- 819 Blow, S., Camberwarra.—Butter.
- 820 Boardman, J., Picton.—Butter and cheese.
- 821 Bodalla Co. Ltd., Bodalla.—Cheese.
- 822 Bresnahan, D., Wild's Meadows.—Butter.
- 823 Brice, C., Bodalla.—Cheese.
- 824 Brook, A., Milton.—Butter.
- 825 Brooker, J., East Kangaloon.—Butter.
- 826 Brown, T., Kiama.—Butter.
- 827 Caines, J. D., Pyree.—Butter and cheese.
- 828 Campbell, A., Gerringong.—Butter.
- 829 Carberry, J., Dapto.—Butter.
- 830 Carberry, M., Woollongong.—Butter.
- 831 Carter, J., Camden.—Butter.
- 832 Carter, H. J., Goolmanger.—Cheese.
- 833 Chittich, H., Robertson.—Butter.
- 834 Claffey, Mrs. M. A., Gilmore.—Butter.
- 835 Colley, H., Jambaroo.—Butter.
- 836 Condon, J. J., Albion Park.—Butter.
- 837 Condon, J. J., Albion Park.—Butter.
- 838 Cook, W. M., Dapto.—Butter.
- 839 Couch, W., Robertson.—Butter.
- 840 Country Milk Co., Brownsville.—Butter.
- 841 Crawford, H., Woollongong.—Butter.
- 842 Cullen, C. J., Figtree.—Butter.
- 843 Cullen, R. J., Wild's Meadows.—Butter.
- 844 Curtis, J., Robertson.—Butter.
- 845 Curtis, W., Bega.—Cheese.
- 846 Daly, J. M., Jambaroo.—Butter.
- 847 Dengate, F. W., Camden.—Butter.
- 848 Dunster, W. C., Shell Harbour.—Butter.
- 849 Du Rietz, Barragarry.—Butter.
- 850 East, J., Berellan.—Butter.
- 851 Emery, J. J., Nowra.—Butter.

- 852 Evans, H. R., Dapto.—Butter.
 853 Fraser, C., Mittagong.—Butter.
 854 Fredericks, H., Kiama.—Butter.
 855 Gannon, J., Cobargo.—Cheese and bacon.
 856 Gay, E., Robertson.—Butter.
 857 Gibson, E., Brownsville.—Butter.
 858 Goodger, W., Ulmarra.—Cheese.
 859 Gorus, T., and Son, Minto.—Butter.
 860 Green, J., sen., Lyttelton.—Cheese.
 861 Griffiths, E., Camden.—Butter.
 862 Griffin, J. F., Unanderra.—Butter.
 863 Hanscombe, W., Numbugga.—Cheese.
 864 Hargrave, R., Tumut.—Cheese.
 865 Hart, H., Milton.—Butter.
 866 Hawdon, E., Moruya.—Cheese.
 867 Heffernan, R., Moruya.—Cheese.
 868 Heffernan, W., Bega.—Cheese.
 869 Herganhan, C., Bega.—Butter.
 870 Hindmarsh, W. R., jun., Robertson.—
 Butter.
 871 Hindmarsh, W. R., sen., Robertson.—
 Butter.
 872 Houston, J., Brundie.—Butter.
 873 Inskip, D., Cobargo.—Butter and cheese.
 874 Irvine, H. G., Figtree.—Butter.
 875 Irwin, W., Bega.—Cheese.
 876 James, T., Shell Harbour.—Butter.
 877 Jauncey, J., Bega.—Cheese.
 878 Jauncey, J., Bega.—Cheese.
 879 Jauncey, W., Bega.—Cheese.
 880 Johnston, H., Robertson.—Butter.
 881 Kerwick, P., Yarrunga.—Butter.
 882 King, G. F., Cobargo.—Butter.
 883 Koellner, J., Bega.—Cheese.
 884 Leary, W. J., Crookwell.—Butter.
 885 Lee, G., Gerringong.—Butter.
 886 Leslie, R., Pyree.—Butter and cheese.
 887 Lindsay, D., Shell Harbour.—Butter.
 888 Lindsay, G., sen., Dapto.—Butter.
 889 Lindsay, J., jun., Dapto.—Butter.
 890 Lindsay, J., sen., Unanderra.—Butter.
 891 Lindsay, G., Dapto.—Butter.
 892 Mackenzie, W., Wild's Meadows.—Butter.
 893 Marshall, R. J., Dapto.—Butter.
 894 Meaker, G., Bega.—Cheese.
 895 Miller, A., Milton.—Butter.
 896 Miller, J., Gerringong.—Butter.
 897 Miller, J., Cobargo.—Cheese.
 898 Miller, J. R., Wild's Meadows.—Butter.
 899 Miller, E., Gerringong.—Butter.
 900 Moses, R., Wild's Meadows.—Butter.
 901 Moses, E., Wild's Meadow.—Butter.
 902 Moore, J., Wild's Meadows.—Butter.
 903 Moore, R., Bega.—Butter.
 904 Mould, A., Yarrunga.—Butter.
 905 Murray, C., Numba.—Butter.
 906 Murray, W., Bega.—Cheese.
 907 Musgrave, W. L., Brownsville.—Butter.

- 908 McClelland, W., Nowra.—Butter.
 909 McGill, A., Tullimbar.—Butter.
 910 McGill, D., Tullimbar.—Butter and cheese.
 911 McGill, J., Albion Park.—Butter.
 912 McLean, A., sen., Crookhaven.—Butter.
 913 Nelson, A., Gerringong.—Butter.
 914 Noakes, W. H., Camberwarra.—Butter.
 915 Otton, J., jun., Bega.—Cheese.
 916 Peacock, J., Bega.—Butter and cheese.
 917 Pioneer Factory, Kiama.—Butter.
 918 Piper, J., East Kangaloon.—Butter.
 919 Pollock, J., Brundie.—Butter.
 920 Porter, J., Wollongong.—Butter.
 921 Rogers, R., Bega.—Cheese.
 922 Ryan, P., Bundanoon.—Butter.
 923 Scanlan, M., Tullimbar.—Butter.
 924 Seery, M., Yarrunga.—Butter.
 925 Sharp, J., Albion Park.—Butter.
 926 Shelley, R. M., Tumut.—Cheese.
 927 Smart, J., Milton.—Butter.
 928 Stennett, F. T., Bega.—Cheese.
 929 Triggell, J., Lyttelton.—Cheese.
 930 Unanderra Dairy Co., Unanderra.—Butter.
 931 Underhill, T., jun., Bega.—Cheese.
 932 Warden, A. F., Milton.—Butter.
 933 Warren, G. B., Bega.—Butter.
 934 Walters, J. J., Sutton Forest.—Butter.
 935 Wauchope Butter Factory, Jamberoo.—
 Butter.
 936 Whyman, T., Bega.—Cheese.
 937 Willford, W. H., Milton.—Butter.
 938 Williams, D., Woollongong.—Butter.
 939 Williams Bros., Robertson.—Butter.
 940 Wood, P. H., Bega.—Cheese.
 941 Woodstock Butter Factory, Jamberoo.—
 Butter.

Class 69.—Meat and Fish.

- 942 Alexander, T., Gerringong.—Bacon and
 ham.
 943 Arnold, C. J., Camden.—Hams and bacon.
 944 Australian Meat Co., The, Grafton.—
 Preserved beef.
 945 Beck, J. C., Glennie's Creek.—Bacon and
 ham.
 946 Faulks, J., Yarrunga.—Bacon.
 947 Gannon, J., Cobargo.—Bacon.
 948 Groghegan, L., Broughton Creek.—Bacon
 and hams.
 949 Haywood, J. W., Pambula.—Hams and
 bacon.
 950 Richardson, J., and Co., Armidale.—
 Bacon.
 951 Sydney Meat Preserving Co., Ltd.,
 Sydney.—Preserved meats, soups, and extracts.

Class 70.—Vegetables and Fruit.

- 952 Arnold, C. J., Camden.—Fruit.
 953 Black, H. G., Dural.—Fruits preserved in
 water.

- 955 Bradman, C., Cootamundra.**—Apples.
956 Chapman, G., Springhill.—Potatoes.
957 Clark, J., Kurrajong.—Oranges and lemons.
958 Commissioners for New South Wales, Sydney.—Wax models of fruit.
959 Crispin, G., Grafton.—Vegetables and fruits.
960 Darlow, J., Tumut.—Apples.
961 Fagan, W., North Colo.—Trees and fruits.
962 Hassall, J. M., Cooma.—Potatoes.
963 John, T., Kurrajong.—Fruits, sunflower seeds, etc.
964 Kadwell, H., Goulburn.—Potatoes and onions.
965 Lew, J. A. H., Lismore.—Cherries and pine-apples.
966 Mays, Miss M., Kurrajong.—Oranges and lemons.
967 Millson, J. W., Bowna, via Albury.—Fruit.
968 Scobie, M. and R., West Maitland.—Potatoes, fruit, and vegetables.
969 Skuthorpe, R., Kurrajong.—Oranges and lemons.
970 Stewart, J., Kurrajong.—Oranges and lemons.
971 Sykes, W., Mount Macquarie.—Fruit.
972 Trees, W. G., Kempsey.—Field peas.
973 Volckers, H. A., Grafton.—Fruit.
974 Volmer, M. F., Ermington.—Fruit.
975 Wall, T., Woolomin.—Potatoes.
- Class 71.—Condiments and Stimulants, Sugar and Confectionery.**
- 976 Ali, A., Otto-st., off Devonshire-st., Sydney.**—Superior Indian condiments.
977 Baillie, Emily J., Parramatta.—Chutney and sauce.
978 Ball, J., Gundurimba.—Sugar-cane.
979 Ball, I. W., Gundurimba.—Sugar-cane.
980 Barrett and Co., 55 Buckingham-st., Sydney.—Collection of cordials.
981 Biddell Bros., 505 and 507 George-st., Sydney.—Confectionery.
982 Carter, E., Wardell.—Sugar-cane.
983 Channon, J., Harbour-st., Sydney.—Waugh's baking powder.
984 Colonial Sugar Refining Co. Ltd., O'Connell-st., Sydney.—Sugars, syrups, etc.
985 Conlon, Mrs. K., Windsor.—Preserved fruit, pickles, jams, jellies, etc.
986 Cooper, A., Ivy-st., Darlington.—Pickles.
987 Corrie, Sophia, Colo Vale.—Tomato sauce and chutney, candied fruits, and pickles.
988 Cripps, Ada, Bathurst.—Dried fruits.
989 Douglas Ross & Co., Pitt-st., Sydney.—Coarse salt.
990 Garven, A. H., Palmer's Island.—Sugar cane.
991 Harrington, G., Elizabeth-st., Sydney.—Confectionery.
992 Hermann, A., Wyrrallah.—Sugar-cane.
993 Howey, W., Cowra.—Aerated waters cordials, etc.
994 Hunt, A. M., and Co., Goulburn.—Baking powder.
- 995 Italian Bee Co., The, Secretary's Office, Bond-st., Sydney.**—Honey, honey in comb, and hives.
996 Lew, J. A. H., Lismore.—Coffee (raw and manufactured).
997 Loder, G. T., Singleton.—Tomato sauce and chutney.
998 Monk, D. J., 295 Sussex-st., Sydney.—Vinegar, malt, and wine.
999 M'Pherson, J., Wyrrallah.—Sugar-cane.
1000 Patten, R., Cowra.—Honey in comb.
1001 Pollock, A., Nowra.—Collection of cordials.
1002 Pollock, J., Fernmount.—Cordials.
1003 Prigg, Mrs. J., Moss Vale.—Preserved fruits.
1004 Richmond River Sugar Co., Richmond River.—Sugar-cane and sugar.
1005 Rosenkrautz Bros., Oxford-st., Sydney.—Confectionery, etc.
1006 Seccombe, E., Nowra.—Preserved fruits, jams, and condiments.
1007 Sheehan, J., Lismore.—Sugar-cane.
1008 Smith, H. J., Kent-st., Sydney.—Cordials.
1009 Stansell, J., Pitt-st., Sydney.—Hop bitters.
1010 Taylor, C. E., Lismore.—Sugar-cane cotton, and fibres.
1011 Tresscott & Co., F., Wilson-st., Newtown.—“Botanica.”
1012 Vaughan, Mrs. M. B., Lismore.—Sugar-cane.
1013 Vercoe, J., West Maitland.—Preserved fruits.
1014 Watson and Young, Albury.—Collection of cordials.
1015 Whitney, W., Richmond River.—Sugar-cane.
1016 Woolrych, L. F., Kenthurst, via Parramatta.—Honey.
- Class 72.—Fermented and Distilled Drinks.**
- 1017 Bartlett and Co., Goulburn.**—Ale and stout.
1018 Barker, T., Bringelly.—Wine.
1019 Beattie, H., Wagga Wagga.—Wine.
1020 Boggie, W. H., Leichhardt.—Bottled stout.
1021 Bouffier Bros., Oxford-st., Sydney.—Wine.
1022 Bray, T., Corowa.—Wine.
1023 Bruckhauser, J., sen., Camden.—Wine.
1024 Carmichael, G. T. and J. B., Seaham.—Wine.
1025 Colonial Sugar Refining Co. Ltd., O'Connell-st., Sydney.—Spirits.
1026 Craufurd, G. A., Young.—Ale.
1027 Eaton, W. H. F., Tunibarumba.—Ale and porter.
1028 Elwin and Co., W. H., Orange.—Ale and porter.
1029 Fallon, J. T., Albury.—Wine.
1030 Fiaschi, T., 39 Phillip-st., Sydney.—Wine.
1031 Fitzpatrick, D. J., Bathurst.—Ale.
1032 Gorus & Sons, J. T., Minto.—Wines.
1033 Greer and Co., E., Albury.—Wine.
1034 Harbottle, Alsop and Co., Albury.—Wine.
1035 Hunt Bros., Kiama.—Ale and porter.

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| <p>1036 Hungerford, T., Ashfield.—Orange wine.
 1037 Kelman, J., Branxton.—Wine.
 1038 Korn, J., Gilmore.—Wine.
 1039 Kurtz, F., Dubbo.—Wine.
 1040 Marks, S., Newtown.—Ale, porter, and lager beer.
 1041 Mather, T., Inverell.—Wine.
 1042 Milne, G., and Co., Maitland.—Ale and porter.
 1043 Moore & Barnett, Inverell.—Wine.
 1044 M'Callum, J., Dubbo.—Ale and porter.
 1045 Peterson, E., Corowa.—Wine.</p> | <p>1046 Renateau, J. W., & Co., Blayney.—Ale.
 1047 Resch, R., Cootamundra.—Beer.
 1048 Schofield, J., Windsor.—Wine.
 1049 Smith, J., Leichhardt, Sydney.—Stout, ale, lager beer, and all malt liquors.
 1050 Stanley & Littlewood, George-st., Sydney.—Wines.
 1051 Wilkinson, J. A., George-st., Sydney.—Wines.
 1052 Wilson, W., Douglas Vale, Port Macquarie.—Wines.
 1053 Treacey & Sons, Martin, Wagga Wagga.—Ale and stout.
 1054 Wyndham, J., Branxton.—Wine.</p> |
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IX.

Sanitation, Medicine, Hygiene, and Public Relief.

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| <p>Class 73.—Sanitary Appliances, Surgical Instruments, Plans, Models, &c.</p> <p>1055 Grace, T., 64 St. John's-road, Forest Lodge.—Automatic earth closet.</p> <p>1056 Levers, J. V., Pitt-st., Redfern.—Disinfectant and washing fluids.</p> <p>1057 Papini, L., 15 Catherine-st., Forest Lodge.—Improved self-adjusting truss.</p> | <p>Class 74.—Apparatus and Processes for Heating and Lighting.</p> <p>1058 Pullin, A. R., 5 Park-st., Sydney.—The aurora lamp and flap signs or signals.</p> <p>1059 Sergeant, J. N., 146 Liverpool-st., Sydney.—The wonderful labour-saving iron.</p> <p>1060 Smith, H. T., Kent-st., Sydney.—Lamps and gas-making machines.</p> <p>1061 Webster, G. E., Liverpool-st., Sydney.—Lamps, burners, etc.</p> |
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XI.

Horticulture.

- Class 80.—Seeds and Saplings of Forest Trees.**
- 1062 John, T., Kurrajong.—Species of forest trees in pots, sunflower seeds.

XII.

Mining Industries—Machinery and Products.

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| <p>Class 82.—Apparatus and Processes of the Art of Mining and Metallurgy.</p> <p>1063 Deitz, J., Royal Exchange Hotel, Temora.—Pair of puddling machines for treating alluvial wash.</p> <p>1064 Husband, J.—Patent safety catch for lifts and cages.</p> <p>1065 Icke, C., and Miss Cornwell.—Hot air-blast and water-jacket furnace combined.</p> <p>1066 Parke and Lacy, 189 Clarence-st., Sydney.—General mining machinery—rockbeaters, crushers, jiggers, concentrators, etc.</p> | <p>Class 83.—Mining and Metallurgy.</p> <p>1067 Adams, J., Yalwal, Nowra.—Minerals.</p> <p>1067a Adeline Gold Mining Co., Fairfield, Tenterfield, per D. Moses.—Collection of minerals.</p> <p>1068 Albion Tin Mining Co., Barrier Range.—Lode tin.</p> <p>1069 Anschau, W., Lismore.—Tripolyte.</p> <p>1070 Australian Kerosene Oil Mineral Co., Joagga Creek, Mittagong.—Kerosene and shale and fuels. Agents: J. Osland Moody & Co., 75 William-st., Melbourne.</p> |
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- 1071 Australian Agricultural Co., Newcastle.—Coal.
- 1072 Australian Alum Co., The, Bond-st., Sydney.—Alum and alumnite.
- 1073 Barton, Russell & Co., Russell Lea, Five Dock.—Tin, stone, crystal, copper.
- 1074 Barton, R., Russell Lea, Five Dock.—Tin, stone, crystals copper ore.
- 1075 Bathurst, E. W., Felton, Woollahra.—Diamondiferous drift, with diamonds and associated gems.
- 1076 Bakewell Bros., Beulah Brick Works, Macdonaldtown.—Shale, ground shale, three green bricks, and bricks.
- 1077 Back Creek Silver and Gold Mining Co. No Liability, per E. Baker, manager.—Chloride of silver with gold.
- 1078 Biggar, J., Kembla-st., Wollongong.—Coal.
- 1079 Bishop, L., Raymond-terrace, Hunter River.—Building stone.
- 1080 Bingle, J. R., and Co., 9 Macquarie-place, Sydney.—Oxide of antimony ore.
- 1081 Blatchford, J. H., Bell's Creek, Braidwood.—Auriferous and argentiferous quartz with zinc-blend pyrites, and galena.
- 1082 Boggy Creek Hydraulic Sluicing Co., Nowendoe, New England.—Sample of gold, precious stones, and gold wash.
- 1083 Broughall Colliery Co., Tighe's Hill, Newcastle.—Coal.
- 1084 Broken Hill South Silver Co. Ltd., O'Connell-st., Sydney.—Silver ores.
- 1085 Brown, J. & A., Duckenfield, Merthyr Collieries, Newcastle.—Coal and coke.
- 1086 Brown, T., Singleton.—Coal and coke.
- 1087 Broughall and Co., Oakey, Park Colliery, Lithgow.—Coal.
- 1088 Broken Hill Proprietary Co., Barrier Ranges.—Silver and lead ores.
- 1089 Broken Hill Junction Silver Mining Co., Barrier Ranges, per 7½ Queen-st., Melbourne.—Mineral ores.
- 1090 Brackenridge & Watson, Blane-st., Newcastle.—Iron ore.
- 1091 Bulli Coal Mining Co., 17 Bridge-st., Sydney.—Block of coal.
- 1092 Burwood Coal Mining Co. Ltd., Newcastle.—Coal.
- 1093 Burns, J., Russell-st., Bathurst.—Fossil marble monument.
- 1094 Caloola Tin Mining Co. No Liability, W. L. Ware, manager, King William-st., Adelaide, South Australia.—Tin ore.
- 1095 Campbell, W. B., Flushcombs Turrets, Blacktown.—Samples of copper and ore.
- 1096 Carr, M. W., Red Cross Tin Mine, Emma-ville.—Tin ore.
- 1097 Central Broken Hill Silver Mining Co., Broken Hill, per Watt and Dodd, managers, 131 Pitt-st.—Sample of ore.
- 1098 Chesney, C. A., Tindarey, Cobur.—Gold-bearing stone.
- 1099 Christmas Mine, Purnamoota, per J. Morgan.—Samples of silver and lead ore.
- 1100 Cochrane, G., North Willoughby.—Terra-cotta and terra-cotta clay.
- 1101 Colls, T., M.P., Yass.—Sulphate of baryta, from Humewood.
- 1102 Colorado Proprietary Mining Co., Moonbi Ranges, care of J. M'Gregor, Esq., Sydney.—Pyramid of golden ore.
- 1103 Colossus Silver Mining Co., Barrier Range.—Silver ore.
- 1104 Coman, E. J., Moruya.—Minerals.
- 1105 Commodore Gold and Silver Mining Co. Ltd., Captain's Flat.—Gold, silver, and lead ores.
- 1106 Cordillera Hill Silver Mining Co., Tuena, per Phipps Turnbull and Co., Bond and George Sts., Sydney.—Silver ore.
- 1107 Cordillera Hill Silver Mining and Smelting Co. No Liability, Peelwood.—Carbonates of lead and copper, etc.
- 1108 Cosmopolitan Extended Tin Mining Co., Barrier Ranges.—Lode tin.
- 1109 Cosmopolitan Tin Mining Co., Barrier Ranges.—Lode tin.
- 1110 Currie, D., Dunoon, Lismore, Richmond River.—Coal.
- 1111 Dash and Wise, Newtown-road, Sydney.—Castings.
- 1112 Dewhurst, A., Licensed Surveyor, District Survey Office, Tamworth.—Coal and shale.
- 1113 Delany, A., Molong.—Bismuth, tin, and copper ores.
- 1114 De Mestre, A., Berrung, Shoalhaven.—Alum (crude) and alum earth.
- 1115 Dubbo Coal Mining Co., Dubbo.—Coal.
- 1116 Dubois, Collett and Co., Pitt-st., Sydney.—Coarse salt.
- 1117 Dudley, U., Port Macquarie.—Collection of minerals.
- 1118 Edwards, T., and Party, Locksley.—Quartz, with pyrites, galena, and zinc blend.
- 1119 Elliott, J., Rix Creek Colliery, Singleton.—Coal.
- 1120 Engelen, J. B., Gundagai.—Soapstone, asbestos, slate.
- 1121 Eryle South Silver Mining Co., Post Office-chambers, Pitt-st., Sydney.—Silver and copper ores.
- 1122 Ferguson, A. D., Wellington.—Copper ore.
- 1123 Firkin, S., 19 Gibbons-st., Redfern.—Nuts and bolts.
- 1124 Fitzroy Iron Works, Mittagong.—Wrought and pig iron.
- 1125 Garland, C. L., Carcoar.—Mineral ores.
- 1126 Gibson, J. T.—Clay, terra-cotta, bricks, tiles.
- 1127 Gleadon, J. C., Booth-st., Balmain.—Gold quartz and antimony ore.
- 1128 Golden Crown Claim, Yalwall.—Gold-bearing quartz.
- 1129 Great Cobar Copper Mining Co., Wate and Dodds, managers, 131 Pitt-st.—Samples of ore and refined copper.
- 1130 Griffin, J. G., Post Office-chambers, Sydney.—Silver ore.
- 1131 Great Northern Coal Co. Ltd., Watt-st., Newcastle.—Coal.
- 1132 Greta Coal Co., Greta.—Block of coal.
- 1133 Guy, F., Pyrmont, Sydney.—Argentiferous and auriferous ores.
- 1134 Hammond, M. J., Ashfield.—Cobalt ore.
- 1135 Harber, A., and Co., St. Peter's.—Shales, clay, semi-plastic bricks, fossils, minerals.
- 1136 Hassall and Dousell, Post Office-chambers, Pitt-st., Sydney.—Tin ore and gems, from Oban, New England.

- 1137 **Hayter, G.**, Newbridge.—Iron ore.
- 1138 **Hetton Coal Co. Ltd.**, Newcastle, J. S. Hutchinson, Bond-st., Sydney.—Coal trophy.
- 1139 **Homeward Bound Gold Mining Co.**, Yalwal, Shoalhaven.—Quartz specimens.
- 1140 **Irby, E.**, Tenterfield.—Silver ore.
- 1141 **Isaacsohn, M.**, Nundle.—Collection of auriferous and other mineralogical and geological specimens.
- 1142 **Jones, T. M.P.**, Sydney.—Kaolin, from Shaking Bay, near Tunut.
- 1143 **Jubilee Tin Mining Co. Ltd.**, Barrier Ranges.—Lode tin ore.
- 1144 **Kate Silver Mining Co. Ltd.**, Barrier Ranges.—Silver-lead ores.
- 1145 **Katoomba Coal and Shale Co.**, Katoomba, J. B. North, 90 Pitt-st., Sydney.—Kerosene shale and steam coal.
- 1146 **Kennedy, G.**, Tenterfield.—Tin ores.
- 1147 **Kelly, J. S. M.P.**, Legislative Assembly.—Staniferous copper ore.
- 1148 **Kurrajong Gold Mining Co.**, A. H. Barclay, L.M., Post Office-chambers, Pitt-st.—Quartz and pyrites.
- 1149 **Lady Don Tin Mining Co.**, E. P. Evans, Director, Eurowie, Barrier Range.—Tin ore.
- 1150 **Lark and Sons**, Moore-st., Sydney.—Antimony.
- 1151 **Lassetter and Co. Ltd.**, George-st., Sydney.—Sheep-ear marks tally, etc.
- 1152 **Lewis, M. W.**, East Maitland.—Samples of stone and stone foundations.
- 1153 **Lithgow Valley Colliery**, H. R. Hammond, manager, Lithgow.—Coal.
- 1154 **Liebentrill, F.**, Cumberland Pottery and Tile Works, near Druitt Town.—Clay, shale, vases, and pottery.
- 1155 **Liversidge, A.**, F.S.S., University.—Gold and precious stones.
- 1156 **Lloyd, L.**, 11 Norwich-chambers, Hunter-st.—Refined copper and copper ore.
- 1157 **Lysaght Bros. & Co. Ltd.**, 31 O'Connell-street, Sydney.—Wire netting.
- PLEASE NOTE.**—LYSAHT's Netting is of Colonial Manufacture; being free from the deterioration of a long sea voyage, its DURABILITY can be GUARANTEED. City Offices: 12 Queen-st., Melbourne. Telephone 1102.
- 1158 **Mascotte Silver-Lead Mining Co. Ltd.**—E. W. von Sanden, secretary, Selborne-chambers, Pirie-st., Adelaide.—Silver-lead ores.
- 1159 **MacGregor, Harris and Co.**, George-st., Sydney.—Galvanised iron, tin, zinc, etc.
- 1160 **Macleay Agricultural Society**, Kempsey.—Marble, granite, silver ore, antimony.
- 1161 **Mackenzie and Henderson**, Sydney.—Oil and gas producing mineral.
- 1162 **Minto Nowland Co.**, Rosedale Colliery, Camberwell.—Coal.
- 1163 **Minister for Mines**, Phillip-st., Sydney.—Minerals, metals, fossils, etc.
- 1164 **Mittagong Coal Co. Ltd.**, Mittagong.—Coal.
- 1165 **Mitchell, J.**, Table Top, Bonna.—Building stone.
- 1166 **Morgan, A.**, Swift-st., Albury.—Wine strainer, etc.
- 1167 **Moritz, D.**, Margaret-st., Sydney.—Sash locks.
- 1168 **Moruya Silver Mine**, per Francis Guy, Pyrmont.—Silver and gold ores.
- 1169 **Mount Carrington Gold Mining Co.**, Drake, Tenterfield, per W. H. Vivian.—Gold ore.
- 1170 **Mount Stewart Silver Mining Co.**, Dennis Town, Mudgee District.—Galena ore, carbonate of lead, ironstone, and galena, etc.
- 1171 **Mount Costigan Lead and Silver Mining Co. Ltd.**—Silver-lead bullion.
- 1172 **Mount Pleasant Coal Co.**, Wollongong.—Coal.
- 1173 **Mount Kembla Coal and Oil Co. Ltd.**, 97 Pitt-st., Sydney.—Coal.
- 1174 **Mount Euriowie Tin Mining Co.**, per Karlbaum, Pirie-st., Adelaide, S.A.—Lode tin ore.
- 1175 **Mount Billygoe Prospecting Syndicate**, Cobar.—Gold and silver bearing ore.
- 1176 **Mount Victoria Coal Mine** (Garrett and F. Mackenzie, Victoria-st., Darlinghurst), Mount Victoria.—Coal.
- 1177 **Mount Wilson Coal Mine**, Grose Valley.—Coal.
- 1178 **New South Wales Shale and Oil Co. Ltd.**, 102 Clarence-st., Sydney.—Kerosene shale blocks.
- 1179 **New Lambton Colliery**, per Alexander Brown.—Section of coal.
- 1180 **Newcastle Wallsend Coal Co.**, per F. W. Binney, secretary, South British-chambers, Sydney.—Sample of coal.
- 1181 **Neill, J. C., and Co.**, Greycairn, Edgecliff-road, Woollahra.—Silver ores from Silver Quarry, Hell Hole, New England.
- 1182 **New Anvil Creek Coal Co.**, Newcastle.—Coal.
- 1183 **New Lewis Ponds Gold and Silver Mining Co. Ltd.**, Upper Lewis Ponds.—Silver-lead ore.
- 1184 **New Lewis Ponds Gold and Silver Mining Co.**, near Orange.—Silver ore.
- 1185 **Nymagee Copper Mining Co.**, 131 Pitt-st., Sydney.—Samples ore and refined copper.
- 1186 **One-Tree Cordillera Silver Mining Co.**, No Liability, care of Hassall and Woodhouse, 21 Exchange.—One ton silver ore.
- 1187 **Oppenheimer, A.**, per R. Walker, Bond-st.—Auriferous ores.
- 1188 **Osborne Wallsend Colliery**, Mount Keira, Wollongong, F. P. McCabe, Circular Quay.—Coal.
- 1189 **Pinnacle Tribute Silver Mining Co.**, Barrier Ranges, Silverton.—Silver-lead ores.
- 1190 **Purified Coal and Coke Co.**, Newcastle.—Coal-made model.
- 1191 **Rae, F. J. E., and Party**, Wellington.—Copper ore.
- 1192 **Read, Gould and Langworth**, Lime stone.
- 1193 **Richardson, W. W.**, Goulburn.—Gold ore from Carrington mine, near Marulan; silver ore from Jerrara Creek silver mine, near Goulburn.
- 1194 **Riddell, A. J. P.**, per Mackrell, Mills and Co., 269 George-st., Sydney.—Collection of silver and other ores from the Barrier Ranges, N.S.W.
- 1195 **Rivett and Co., F.**, West Maitland.—Castings.
- 1196 **Robertson, J. B. R.**, Oakhampton Park, West Maitland.—Building stone and geological specimens.
- 1197 **Rosedale Colliery**, Newcastle.—Coal.

- 1198 Saunders, R. T., Amy-terrace, Pyrmont.—Sawn, planed, and wrought stones, with photograph.
- 1199 Schaefer, J. J., Adaminaby, Monaro.—Gold and silver quartz.
- 1200 Singleton Coal & Coke Co., Rix Creek, Singleton.—Coal, ironstone coke, and fire clay.
- 1201 Silver King Mine, Purnamoota, per J. M'Namara.—Silver ore and gold quartz.
- 1202 Smith, W. H., and Sons Ltd., 79 York-st., Sydney.—Coal and coke.
- 1203 Smith, A., Chemist, Adelong.—Collection of minerals and precious stones.
- 1204 South Bulli Coal Co., Mitchell and Woolcott-Waley, Macquarie-place.—Coal.
- 1205 Stockton Coal Co. Ltd., Stockton, Newcastle.—Coal.
- 1206 Stockton Coal Co. Ltd., J. J. Weston, Manager, 29 O'Connell-st., Sydney.—Sample of coal.
- 1207 Stewart, J. P., Emmaville.—Collection of minerals, fossils, and crystals.
- 1208 Sydney Diamond Co. Ltd., Bridge and Young Sts., Sydney.—Exhibit.
- 1209 Tall, G., 133 Bathurst-st., Sydney.—Exhibit.
- 1210 Thistle Tin Mining Co. Ltd., The, registered office, Temple-chambers, Currie-st., Adelaide, S.A.—Six bags tin ore.
- 1211 Torrington Tin Mining Co., L. Dodds, manager, 131 Pitt-st., Sydney.—Tin ore.
- 1212 Trident Tin Mining Co., Barrier Ranges.—Lode tin ore.
- 1213 Turner, J., Goulburn.—Freestone.
- 1214 Umberumberka Silver Mining Co. Ltd., Barrier Ranges; office, Comstock-chambers, King William-st., Adelaide.—Silver-lead ores.
- 1215 Vanderbilt Silver Mining Co., Captain's Flat, per C. B. Longbottom, manager, 22 Market-st., Melbourne.—Silver ore (one ton).
- 1216 Vickery & Sons, E., 78 Pitt-st., Sydney.—Block of Greta coal.
- 1217 Victory Tin Mining Co., W. H. Wright, secretary, Barrier Ranges.—Tin ores.
- 1218 Wallsend Coal Co., Newcastle.—Coal.
- 1219 Warren Brick Co., The, Alexandria.—Bricks.
- 1220 Waratah Coal Co., 32 Bridge-st., Sydney.—Coal.
- 1221 Webb's Consols Silver Mining Co., Emmaville, Kennedy Hill, manager.—Silver ore (two tons).
- 1222 Webb's Silver Mining Co.; office, 181 Pitt-st., Sydney.—Silver ores.
- 1223 Weedon, J., Tumut.—Minerals.
- 1224 West Wallsend Coal Co. Ltd., near Newcastle; office, 7 The Exchange, Bridge-st.—Coal.
- 1225 Wheal Herbert Tin Mining Co. Ltd., Stannifer, Sydney.—Lode and stream tin and tin wash.
- 1226 Wheal Australia Tin Mining Co. Ltd., 7 Bent-st., Sydney.—Lode and alluvial tin ore.
- 1227 Wheal Victoria Tin Mining Co. Ltd., 7 Bent-st., Sydney.—Alluvial tin ore.
- 1228 Wheeler, F., Riverstone.—Pipeday, shale, and botties and delf therefrom.
- 1229 White Rock Proprietary Silver Mining Co., Fairfield, Drake, Tenterfield, per W. H. Vivian, secretary.—Silver ore (three tons).
- 1230 Wooller, Pike and Erskine, 23 Burns, Darling Harbour.—Graphite.
- 1231 Young Wallsend Coal Co., Newcastle, per J. C. Bonarius.—Coal samples.
- 1232 Zig Zag Colliery Co., J. Wilson, manager—Coal.

INTRODUCTION TO THE VICTORIAN COURT.

A PUBLISHED record by a critical observer of the Victorian Collection at the London Exhibition of 1862 states that: "Altogether, for variety and importance, no collection in the Exhibition equalled that of Victoria, which received more prize medals and honourable mentions than any other dependency of England except India." The ambition to imitate high ideals and cultivate persistent activity in her skilled pursuits, which won for her such distinguished praise on her first appearance at an Exhibition in the Imperial metropolis, has obviously not deserted her on the present occasion.

POPULATION AND FINANCE.—The opening of the Centennial Exhibition finds Victoria in a condition of unexampled prosperity as regards her public revenue, the transactions of her financial institutions, the extent of her mercantile, agricultural, and pastoral operations, and the volume of business done on the Stock Exchange. The estimated population on March 31st, 1888, was 1,047,308, which represents an increase for the quarter of 11,189. The amount of revenue collected during the twelve months, 1887-8, was £7,607,758, showing an increase of £873,928 on the total figures of 1886, and £751,047 above the budget estimate. There was an increase of nearly £288,142 in the income from railways, and the Customs Department collected upwards of £220,689 more than in the year preceding. Among the more striking features in the last twelve months is the extraordinary advance in the values of city and suburban property in and around the capital. In some of the principal streets of Melbourne the rise in the price of sites has ranged from 50 to 100 per cent., reaching in some instances £2000 per foot frontage, and up to the present no sign is visible of an adverse movement in values.

Banking activity may be accepted as a sure test of the material progress of a state, and in this respect Victoria continues to appear to advantage. Both the liabilities and assets of the eleven recognised banking establishments expand in a very satisfactory ratio. The liabilities of these institutions at the close of the first half of 1887 was £35,631,420, their assets being £43,623,030. Under each of these heads Victoria takes the first place among the Australian colonies. The total in the care of the Post-office and General Savings Banks in 1886 was £3,589,916 at the credit of 189,359 depositors, and the amount of deposits with building societies at the end of the same year was £2,910,792. These figures speak volumes for the thrift and comfort prevailing among the working classes of the colony. The progressive wealth of the community has been carefully calculated by the Government Statist. Independently of the value of Crown lands, Government and municipal buildings, hospitals, churches, State-schools, railways, telegraphs, forts, war-vessels, libraries, museums, and the like, the total wealth of the Victorian population has nearly doubled between the quinquennial period, 1872-76, and that of 1882-86. An average of 936,157 persons in that latter period owned property to the value of £285,527,885.

COMMERCE AND SHIPPING.—A general summary of the import, export, transhipment, and shipping returns for the year ending December 31st, 1887, shows the imports for the twelve months to be £19,022,151, inclusive of border trade worth £3,445,067, the total amount of duty collected being £2,264,773. The value of the exports amounted to £11,351,145, of which £8,502,979 represented the produce and manufacture of the colony, and £2,848,166 British, foreign, and colonial (apart from Victorian) produce and manufactures. The decline in the export value in the last two years is mainly due to a heavy diminution in the amount of gold which left the colony, owing to the exceptionally large amount of capital remitted by draft from London to the colony for investment purposes. The imports for 1886 amounted to £18,530,575, and the exports to £11,795,321. A return of the shipping indicates that 2435 vessels of an aggregate tonnage of 1,920,180 tons, and carrying crews numbering 80,918 persons, entered Victorian ports during 1887, while 2418 vessels, of 1,938,063 tons burden, and carrying 79,888 persons as crews, were cleared from Victorian ports during the same period. The tonnage inwards from the United Kingdom, the Australasian colonies, and all other colonies, has continued to expand without a single relapse for a number of years; but the tonnage outwards to all these destinations has for a like period been marked by fluctuations.

AGRICULTURE.—It is fifty-three years since the first white immigrant settled on Victorian soil, but until a liberal Land Act was framed, in 1869, agricultural development was slow. After the passing of that measure wheat-growing, especially on the northern plains, sprang into great dimensions. In 1873 the land under cultivation was 964,996 acres, and ten years later it amounted to 2,215,923 acres, in 1886-7 to 2,417,582 acres, and in 1887-8 to 2,576,405

Tourists should Visit Fernshawe.

INTRODUCTION TO THE VICTORIAN COURT.

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acres, showing an increase on the year of 158,823 acres. The total extent under the wheat crop in 1873 was 349,976 acres; in 1883, 1,104,393 acres; in 1888, 1,232,943 acres. The gross yield of that cereal in 1888 was 13,328,375 bushels, exceeding that of 1887 by 1,228,729 bushels. Farmers who bring skill to bear upon their industry obtain from 35 to 45 bushels of wheat, as also of oats and barley, per acre in districts where the general average is not more than 15 to 20 bushels per acre. Oats reached a production in 1887-8 of 4,562,530 bushels; maize, 318,551 bushels; barley, for malting and other purposes, 956,476 bushels; potatoes, 198,225 tons; and hay, 624,122 tons.

The extent of farming operations in the colony may be inferred from the number and power of steam engines used on farms, and the value of farming plant and improvements. The horse-power in the steam engines returned for 1886-7 was 4059, against 3390 in the previous year. The value of machines and farming implements, which was £2,674,613 in 1885-6, rose to £2,687,671 in 1886-7; and the advance in improvements on farms appears in the fact that these in the former year amounted to £16,017,098, and in the latter £16,418,012.

LIVE STOCK.—In March, 1887, the estimated number of horses was 308,553; cattle, 1,303,265; sheep, 10,700,403; and pigs, 240,957. With the exception of the description of animal last named, these figures represent a substantial increase compared with the returns at the date of the International Exhibition held in Victoria in 1881. The trade in horses with India has lately assumed considerable proportions, in consequence of demands for the army and cavalry remounts, over 3000 per annum being now shipped from Melbourne to supply these. Ponies, with buggy and omnibus horses, during the past few years have been in extensive request. The cattle originally bred in the colony consisted mainly of shorthorns, Herefords, and Devons, but gradually the herds of Herefords and Devons were given up, stud herds of shorthorns being preferred. Animals of the highest lineage were imported from England. This high-bred stock has become so acclimated to their southern home that they are quite equal to those reared in Great Britain. The desire for stock of high pedigree became so absorbing that, only a few years ago, an imported bull of pure "Duchess" blood realised 4000 guineas in Melbourne. As to sheep, the Merino is invariably the kind bred on the large pastoral properties, but in places where there is a rainfall above the general average, the long-wool is always selected by farmers. Of the long-wool breeds the Lincoln prevails. Leicesters, which were grown for a time, are now being merged in the Lincoln flocks. In a few cold and wet localities the Romney Marsh sheep are reared, but their numbers are small compared with the Merinos and Lincolns. Among the other breeds only one or two small flocks of Cotswolds and Southdowns are bred in Victoria, as these have never been regarded with favour by Victorian flockmasters. Instead of leaving sheep solely at the mercy of the natural pastures of the colony, experiments are now being made to ascertain how fodder can be provided for them to meet a bad season.

DAIRY FARMING.—The exhibits in this department cannot fail to interest those practically concerned in dairy products in view of the prospective importance attaching to them as articles of export to Great Britain. The milk, butter, and cheese annually produced in the colony is valued at nearly £3,000,000. In average seasons the production is equal to the local demand, leaving a considerable surplus for exportation to the neighbouring colonies. It is the factory system which has enabled the Americans to send such large quantities of butter and cheese to outside markets, and the introduction of that system here marks a transition stage in the rapid progress of this description of farming. New Zealand and New South Wales have already proved what may be done by other Australian colonies in disposing profitably of their butter in the English market, and what is possible with the aid of refrigeration in the case of butter, fresh beef, and mutton, is practicable with cheese. Dairy produce manufactured during the spring and summer of the colony can reach England in time to supply the winter market in that country. In this respect, as in many others, the southern part of Australia possesses a great advantage over North America, the seasons of the latter being simultaneous with those of Europe. The farmer on the superior grazing lands of the Mississippi valley and on the western prairies is compelled to house and feed his stock in winter, while in Victoria the fine-woollen Merino sheep, horses, fattening cattle, and dairy cows often thrive upon natural pastures without shelter. At the same time, in this colony produce can be conveyed to the place of shipment from the remotest of its boundaries at a cost trifling, as compared with that involved in the transportation of produce by rail to the coast from the interior of the United States.

FRUIT.—The fruit Exhibits tend materially to strengthen the conviction that fruit-growing for export on a large scale to Europe is an element of latent colonial wealth, the possible magnitude of which has as yet scarcely been realised. The requirements for success in this branch are proper selection, picking, and packing. The bulk of Victorian farmers seem wedded to the growth of cereals, as were those of California, where only a few years ago the people of Napa Valley decided to try fruit as likely to be much more remunerative. The success which has attended the experiment is best seen in the published returns of that industry. One man netted last year £1200 from 70 acres of orchard; another gathering 600

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The Victorian Permanent Building Society

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MELBOURNE CENTENNIAL INTERNATIONAL EXHIBITION.

boxes of Bartlett pears from 300 trees—100 to the acre—clearing, after payment of expenses, 6s. per box at the canning factory; another netted £940 from five acres of prunes. Although Napa Valley has only become the centre of these operations comparatively within the last few years, fortunes are made out of grapes, citrus fruits, English walnuts, almonds, and olives. Victorian consumers are paying £20,000 annually for olive oil, which could be produced from their own soil; while the Californians have discovered "that an olive plantation is a gold mine—even on the rockiest and most uninviting soil." But had Australia been colonised by Greek, Italian, or French olive growers, it would probably have produced large quantities of oil and preserved olives long ago. A beginning has been made in the export of apples and pears to England. The Victorian Commissioner at the late Indian and Colonial Exhibition, held in 1886, recently stated that "when he was in London, some of the very large fruit houses were desirous of opening up a trade with the colonies, and one house had given an order to have regular consignments of fruit forwarded. From March to June there was no fruit in season in London, and the clubs would be ready to pay fancy prices for it. There was a large market, providing the fruit was well packed, arrived in good condition, and went direct to the fruit houses and not into the hands of agents."

The culture of the raisin grape, of which specimens are exhibited, has only been systematically commenced as yet by one or two growers in all Australia, while the dimensions attained by this department of the vine industry in California are already very considerable, in spite of less favourable topographical conditions. The successful cultivation of the raisin grape is only possible under uninterrupted sunshine, the absence of fog or rain during the period of ripening, a rich alluvial soil, with moisture sufficient to keep the vine growing till the grapes begin to ripen, and the absence of spring frosts. Only scattered areas, limited in extent, having these essential requisites, are to be found in California. The whole of the Goulburn Valley, on the other hand, with many thousands of acres in other parts of Victoria, are exceptionally favoured in the possession of these conditions for the prosperous culture of the raisin grape. Ten years ago the Californian raisin was unknown, but in 1887 the production was close on 10,000 tons, and this immense production will have to be six times as large before the demand of the eastern states of the union alone can be met. The price averaged by the Californian producer for this kind of fruit in the dryer is 2½d. per lb., which gives to the raisin-growers of the state a total of £200,000. The average raisin vine-yards of Fresno, San Bernardino, and Los Angeles are not more than twenty acres in extent. From these twenty-acre blocks, with the vines from four years old and upwards, the net annual profit per acre is from £15 to £50. Considering the minimum of capital and labour required, it is the general opinion in California that raisin-growing is more profitable than any other branch of agriculture. Australian farmers suitably circumstanced for deriving practical advantage from that fact can draw the lesson for themselves.

The excellent condition in which several cases of Australian oranges recently arrived in London has prominently directed attention to the possibility of this description of Australian fruit regularly supplying the metropolitan market from August to November—the months during which the Spanish supply ceases. The northern portions of Victoria are admirably adapted for orange culture, and only await an adequate amount of capital, enterprise, and labour to be utilised for that purpose. Fruit brokers in England predict a great future for the Australian orange trade, provided the difficulty with which it is at present handicapped in respect to freight, as compared with countries nearer Great Britain, can be removed. The freight from Melbourne is four times as great as it is from Valencia. Cases one-half the size of those received by English importers from Valencia cost in freight 1s. 6d. each from Spain, and 3s. to 4s. from Melbourne. This is a serious difference, but the demand for oranges exists and is growing in the parent country, and if Australian growers will be as careful in packing their oranges as the Spaniards, a bright future awaits the industry. If this condition be observed, oranges will keep for a much longer period than is occupied by a steamer in covering the distance between these colonies and Europe. Of course, towards the end of the season, when they are dead ripe, they are more delicate, and will decay sooner, but with ordinary care they will stand the voyage without difficulty.

MINING.—Foremost among the exhibits in the mining section is a valuable collection of geological and mineral specimens, illustrative of the mineral resources of Victoria, sent by the Secretary of Mines. As it is to her mining resources that Victoria was indebted for the sudden expansion of her population, wealth, and enterprise thirty-seven years ago and subsequently, mining prospects must remain a question of vital interest to the colony. The yield of gold shows a tendency to increase. The total amount of that metal produced in 1886 was 665,196 ozs., being, without exception, the smallest annual return since 1851. During the nine years dating from 1871 there was a gradual decline, but an improvement took place from 1880 to 1882. The returns from the latter date to the close of 1886 exhibit a renewed shrinkage, from which, however, happily a marked recovery occurred last year, when an increase was noted in the September quarter of 15,899 ozs., and in the December quarter an increase of 6309 ozs. Owing to public attention being specially diverted to silver, however, the gold returns for the first quarter of 1888 mark a decrease of 9594 ozs. According to the

LENTS MONEY AT LOWEST RATES.

46 Collins Street East. Robert Lormer, Secretary.

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LEND
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Government Statist, the value of the gold raised in Victoria prior to 1886, and including the output for that year, reached a total of £217,572,728. The estimated value of minerals and metals, other than gold, from 1851 to 1886, was £849,722.

The mining population of the colony for the quarter ended 31st March last was estimated at 25,947. In quartz-mining 12,618 miners were employed, and 13,329 in alluvial mining. Of the total mining population, 4076 were Chinese—a decrease of 100 on the previous quarter. A circumstance eminently favourable to mining progress in Victoria is the interest which, within the past three years, has been excited in Australian mines of a promising or remunerative character on the London Stock Exchange. It is a curious fact that, despite the enormous amount of gold taken from Victorian mines, it was found almost impossible, until lately, to secure the formation of public companies in England for purchasing and working even the best of them. At length, however, the prejudice which deprived Victoria of the co-operation of British capitalists has, to a large extent, given way. In 1886-7 several Victorian mines were successfully floated in the British market, and if only prudence and honesty uniformly characterise the transactions of vendors of mines here and buyers in England, confidence in our metalliferous resources cannot fail to increase in Europe.

MANUFACTURES.—In 1887, as compared with 1886, the wheat operated upon in the flour mills of the colony increased by 426,000 bushels, and the flour made, by 2508 tons; but the other grain dealt with fell off by 103,000 bushels. There were fewer pairs of stones by 49, but the sets of steel rollers in use increased by 17, and the latter system of grinding flour continues in a marked degree to increase. Distilleries show an advance in the quantity of spirits made, and the number of hands in breweries returned in 1887 increased by 62. The quantities of malt, sugar, and hops used in the manufacture of beer were considerably larger, and the beer made was 16,088,462 gallons, against 14,753,152 gallons in the year preceding. The beer brewed and imported, less that exported, in 1884-6 represented an average of 16 gallons per head. This proportion of annual consumption places Victoria below the United Kingdom, Germany, Holland, and New South Wales as a beer-drinking community. There was an augmented value in the bricks made of £31,980 in 1887 compared with 1886. But the business of tanneries, fellmongeries, wool-washing establishments, and woollen mills, indicates a downward movement, which is doubtless only of a temporary character. The same remark applies to tobacco manufacture. Since the Exhibition of 1880-1 the number of manufacturing establishments in Victoria rose from 2468 to 2770 in 1886-7, the hands employed at the latter date being 45,773, and the approximate value of machinery, plant, lands, and buildings, £11,028,158. The number of establishments increased 11 per cent. between 1881 and 1887, and the number of hands 6 per cent. in that interval, while the value of the machinery rose 37 per cent.

MACHINERY.—Visitors to the Exhibition are furnished with a practical illustration of the arduous work undertaken in the irrigation of the Mildura settlement. The figures published annually by the Government Statist, apart from the unchallengeable testimony of other countries exposed to the risk of droughts, abundantly prove the efficacy of irrigation in notably increasing the yield of crops sown; and if the success of the Messrs. Chaffey as irrigators in California may be taken as an earnest of what can be achieved by them here, the lessons in their particular branch, which their labours will teach the farmers situated in the dry districts of the colony, are sure to be attended with incalculable profit to agriculture and the public at large.

Several exhibits of improved battery processes, and of inventions for the more exhaustive extraction of gold from pyritic ores, bearing the names of Victorian patentees, will be certain to attract the notice of mining experts. Every year brings a fresh crop of new methods for treating refractory ores. The process which of late years appears to have been attended with the most satisfactory results is chlorination, the difficulties connected with which have only been recently overcome. This method is based on the fact that chlorine gas transforms metallic gold into sesqui-chloride of gold, soluble in water, whilst it is without influence on most metallic oxides. Plattner first adopted chlorination in 1850 for the extraction of gold from old tailings in Upper Silesia. But that invention, as originally planned, has undergone numerous modifications, and it is now claimed for the last application of the system, patented by two Australian experts, that the cost of treatment has been reduced from 30s. to 12s. per ton, and the loss of gold greatly minimised. Thus a slow, uncertain, costly, and cumbersome process would appear to be converted into a rapid, economic, and effective one. Concentrators and jiggers, safety cages, crushing machines, mine ventilators, fuel economisers, improved boilers, and explosives are included among mining appliances, in which novel features are introduced.

Several firms established in Melbourne exhibit electricity as applied to lighting purposes; and when it is remembered that the system was only in a crude state and but little used ten years ago, its extension in all civilised countries must be considered rapid beyond anticipation. Illumination by electricity cannot yet successfully compete with gas in point of cheapness, but for use in public buildings and dwellings its superior sanitary properties, and freedom from injurious effects to articles of furniture, are becoming speedily recognised; and the number of electric-light installations in 1887 considerably exceeded those of previous years all

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over the world. Several new primary batteries have been introduced, and carbons for arc lamps have been rendered much more durable than previously by the Liepmann process of manufacture, with the result of reducing the cost both in arc and incandescent lighting. One of the lighting systems takes a new departure, professing to solve the problem of distributing an electric current by "transformers" in such a way as to render possible the lighting of towns from a central station. Using accumulators as a means of distribution, charging conductors in series, and discharging them in parallel, and still allowing a 10-per cent. loss, the cost of the secondary batteries and charging conductors is reduced by the new system to £68 17s. 9d. This is an enormous reduction upon the cost of previous systems compassing the same end, and if the alleged advantages of the new system can be substantiated it cannot long escape public attention in Australia.

Another form of electric action is propulsion, which, within the last few years, has been carried beyond the experimental stage. A great stride forward in this branch of electric enterprise was the system of accumulators, which last nine hours at a stretch. Locomotives, based on the latter principle, are doing work daily in a satisfactory manner on the section of the London Metropolitan Tramways between Stratford Church and Manor Park, the length of which is five miles out and five miles in, which occupies twenty minutes each way, with five minutes allowed for stopping and turning. These locomotives keep perfect time, and have encountered no hitch. The same system is also in operation in propelling a steel yacht of 60-horse power, in England, and the extent of the stupendous revolution which this subtle force is destined to work in our social system no man can foresee.

The progress of machinery applicable to various processes of manufacture is shown by interesting illustrations, all pointing at once to the gradual invasion of the province of manual work, and the cheapening of the articles manufactured to the consumer. We are furnished with ocular demonstration that even in the simple matter of dress shirts and collars, hand labour seems to be almost entirely superseded. The cloth is cut and sewn, the button-holes are made, the garments are washed, dried, starched, ironed, polished, and finished by machines adapted for these respective purposes.

13 William Street, Melbourne.

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VICTORIAN EXHIBITS.

[All Exhibits under Section I. are transferred to the Fine Arts Section of the Catalogue, where they will be found under heading "VICTORIA."]

LADIES' COURT.

A miscellaneous collection of articles, principally the work of ladies, which could not conveniently be included under the existing classification, is exhibited separately in a division under the above title.

II.

Education and Instruction—Apparatus and Processes of the Liberal Arts.

Class 6.—Education of Children, Primary Instruction, Instruction of Adults.

- 1 Clark, H., West-st., Ascot Vale.—New system of book-keeping.
- 2 Education Department, Melb.—School buildings, furniture, apparatus, models, plans, school records, and all ordinary work of schools.
- 3 Jones, D., Post Office, Preston Hill.—Translation of "Principia Latina," by a person between 65 and 70, from the instructions in the book itself.
- 4 Kenny, Ellen, Fernshaw, Brunswick.—"Kindergarten Pricking and Sewing" (picture).
- 5 Quick, G. J. M., State-school 2633, Apsley.—Exercise Books. Work of children attending State-school 2633.
- 6 Rosenhain, Flora, William-st., South Yarra, Melb.—Reading and Spelling-book. First Instruction Reading and Spelling. Plain needlework.
- 7 Stewart, J. E., 88 Malvern-road, Prahran, Melb.—Programme of instruction for teaching school children to save life from drowning, sunstroke, &c.
- 8 Taylor, D., 15 Richmond-ter., Richmond, Melbourne.—Drawing copies and models used in the instruction of State-schools in Victoria.
- 9 Victoria Deaf & Dumb Institution, St. Kilda-rd., Melb.—Specimen exercises in written language, arithmetic work, penmanship, &c.
- 10 Victorian Scholastic Trading Co., 29 Clifton-st., Prahran, Melb.—Suite of educational apparatus and appliances on improved principles.

Class 7.—Organisation and Appliances for Secondary Instruction.

- 11 Guilfoyle, W. E., Botanic Gardens, Melbourne.—Collection of 370 Australasian cariological specimens.
- 12 M'Alpine, D., Toorak.—Scientific works.

Class 8.—Organisation and Appliances for Secondary Instruction.

- 13 Axford, Emily L., Wakefield-st., Glenferrie.—Specimen of Pitman's Shorthand.
- 14 Christie, R. D., 83 Swanston-st., Melbourne.—Shorthand, etc.

15 Dinley, P., Easey-st., Collingwood.—Short-hand.

16 Exhibits by the College of Civil and Mechanical Engineers and Architects.

- Askins, W.—Iron lighthouses.
Bennett, T.—Marine boilers.
Blamey, T.—Marine boilers.
Bryan, E.—Municipal buildings.
Hartung, T.—Marine engines.
Hunt, C.—Propeller screw.
Lindsay, J.—Graving docks and machinery.
Machichan, D. H.—Iron bowstring bridge.
Powell, W.—Marine compound engines.
Terrill, R. T.—Express locomotive.
Walker, J.—Villa residence.
Watts, A.—Villa design.
Williams, W. J.—Villa residence.

17 French, C., Botanical Museum, Melbourne.—Australian insects.

18 Hayter, H. H., Govt. Statist, Melb.—Victorian Year-book. General Report of Census, 1881. Australasian Statistics. Handbook of Victoria, &c.

19 Working Men's College, Latrobe-st., Melb.—Drawings, diagrams, and models by students of the college in class.

Class 9.—Printing, Books.

20 Arnall & Jackson, 44 Collins-st. W., Melbourne.—Publications, books, general printing, lithography, and illuminated addresses.

21 Asher, A., "Guardian," Swan-street, Richmond, Melbourne.—Special No. "Richmond Guardian," articles on industries and progress of Richmond.

22 Australian Builder and Contractors News Publishing Co. Limited, 17a Queen-st., Melbourne.—Newspaper, drawings, &c.

23 Aytoun & Williams, 12 Premier-buildings, Collins-st.—Principal newspapers in Victoria.

24 Boyd, C., 35 Sturt-st., Ballarat.—Specimens of general job printing.

25 Brodzky, M., 182½ Russell-st., Melbourne.—3 vols. of "Table Talk" newspaper, bound.

26 Cameron, Laing & Co., S. & D. Reid, Flinders-lane East.—Reid's patent stereo plates.

27 Centennial Publishing Co.—Original illustrated publications.

28 Clarke, Marion, 49 Napier-street, Fitzroy, Melbourne.—Published works and MSS. of the late Marcus Clarke, Australia.

General Importers, Paper Merchants, &c.,

LEND'S MONEY AT LOWEST RATES.

44

MELBOURNE CENTENNIAL INTERNATIONAL EXHIBITION.

- 29** Cross, Margaret M., Howe-street, Daylesford, Victoria.—Specimen book of commercial typography.
- 30** Dranefield, Pike & Co., 139 Collins-st., Melb.—Large illustrated book of old New Zealand.
- 31** Glen, W. H., & Co., 21 and 23 Collins-st. E., Melbourne.—Musical publications. Printed books of music. "The Colonial Musical Cabinet," &c.
In addition to their own publications,
W. H. GLEN AND CO.
21 & 23 COLLINS STREET EAST,
have an immense collection of all the publications of English and Foreign Houses in Sheet and Book Music; also, a stock of 500 Pianos and Organs by the foremost manufacturers in the world, and a large assortment of Musical Instruments of every description, all of which are displayed in their well-known Music Warehouse, Piano Saloons, and Concert Hall. "The Largest Establishment of the kind out of Europe, and pronounced by every Visitor to be unsurpassed in the World for Extent, Elegance, and Beauty of Design."
- 32** Halfey & Winter, "Herald" office.—Exhibit.
- 33** Laurence, A., & Co., 130 Collins-st. W., Melbourne.—"The Australian Brewers' Journal." Books on brewing and cordial-making.
- 34** Marshall, W., & Co., Royal-lane, Melbourne.—Specimens of coloured and other printing.
- 35** Mason, Firth & M'Cutcheon, 51 and 53 Flinders-lane W., Melbourne.—Specimens of plain and fancy job printing and of book work,
- INCLUDING—
- "The Melbourne Centennial International Exhibition Catalogue, 1888-9," 2 vols.
- "The Melbourne International Exhibition Catalogue, 1880," 2 vols.
- "The Official Record of the Melbourne International Exhibition, 1880."
- Books in various bindings.
- Articles of Association of sundry Banking, Mercantile, and Trading Companies, in plain and fancy bindings.
- Commercial, Fancy, and Admission Cards.
- Circulars of various kinds.
- Plan of Subdivision of "The Aberfeldie Estate."
- 36** M'Carron, Bird & Co., 112 Collins-st. West, Melbourne.—Bound volumes "Australasian Insurance and Banking Record," "Trade Review," &c.
- 37** McKinley, A., "Daily Telegraph" office.—Exhibit.
- 38** Nicholson & Co., 45 and 47 Collins-st. East, Melbourne.—Musical publications of Nicholson & Co.
- 39** Niven, J. W., & Co., 40 Sturt-st., Ballarat.—Specimens of typeprinting, engraving, lithography, &c., in frames. Specimens of chromos.
- 40** Overend, R. S., Sale, Gippsland.—"Gippsland Times."
- 41** Picturesque Atlas Publishing Co. Ltd., 14 Wynyard-sq., Sydney.—Specimens of printing, electrotype, and Picturesque Atlas of Australasia.
- 41a** Rogers, J. W. F., Clarke Buildings, Bourke-st. West, Melbourne.—"The Australasian Federal Directory."
- 42** Sands & M'Dougall Limited, 46 Collins-st. W., Melbourne.—Printing and books, lithographic printing, stereotyping, electrotyping, &c.
- 43** Smythe, J. W., 83 Swanston-st., Melbourne.—"The Year-Book of Australia."
- 44** Stott & Hoare, 74 Chancery-lane, Melbourne.—Books and materials for Pitman's shorthand.
- 45** Syme, D., & Co., "Age" office.—Exhibit.
- 46** Victorian Society for Protection of Animals, Melbourne.—Printed matter, pamphlets, etc.
- 47** Wamsley, F. J., 5 Queen-st., Melbourne.—The "Shorthand Weekly News" (Australasian edition). Lithographed journal in all styles of phonography.
- 48** Wamsley, Geo. W., 5 Queen-st., Melbourne.—The "Journal of Commerce of Victoria and Melbourne Prices Current."

THE "JOURNAL OF COMMERCE OF VICTORIA AND MELBOURNE PRICES CURRENT." Established 1855. A Fortnightly Review of Finance and Trade. Proprietor, GEO. W. WAMSLEY, 5 Queen-st., Melbourne.

Journal of Commerce



The "Journal of Commerce" is the oldest, and has the largest and widest circulation of any trade journal in Australasia.

- 49** Whitehead & Co., 53 Collins-st. East, Melbourne.—Specimens of typography, autographic proofs, lithographic proofs, printing, &c.
- 50** Wilson & M'Kinnon, "Argus" Office, Collins-st. E., Melb.—Plates, stereotypes, and specimens of printing.
- Class 10.—Stationery, Bookbinding, Painting and Drawing Materials.
- 51** Arnall & Jackson, Collins-st. W., Melbourne.—Account books, inks, bookbinding, paper ruling, embossing, and rubber stamps.
- 52** Artistic Stationery Co., 69 and 71 Swanston-st., Melbourne.—Artists' materials drawing models, manufactured stationery, etc.
- 53** Detmold, W., 8 Flinders-lane East, Melbourne, bookbinder, manufacturing stationer, paper ruler, manufacturer of photographic mounts, account-book manufacturer.—Exhibit.
- 54** Fox, C. J., 40 Little Collins-st. East, Melbourne.—Cardboard mounts for photographs.
- 55** Guilfoyle, W. R., Botanic Gardens, Melbourne.—Samples of paper and millboards, from plants in the Melbourne Botanic Gardens.
- 56** Howship, C. B., Little Collins-st., Melbourne.—Plain and fancy cut out mounts for photographers, hand screens, panels for painting, etc.
- 57** Jack, A., & Co., 34 Flinders-lane West, Melbourne.—Plain and printed paper, calico bags, tea and coffee papers, calendars, etc.
- 58** Novelty Paper Box Co. Ltd., 77 and 79 Webb-st., Fitzroy.—Paper and cardboard boxes.

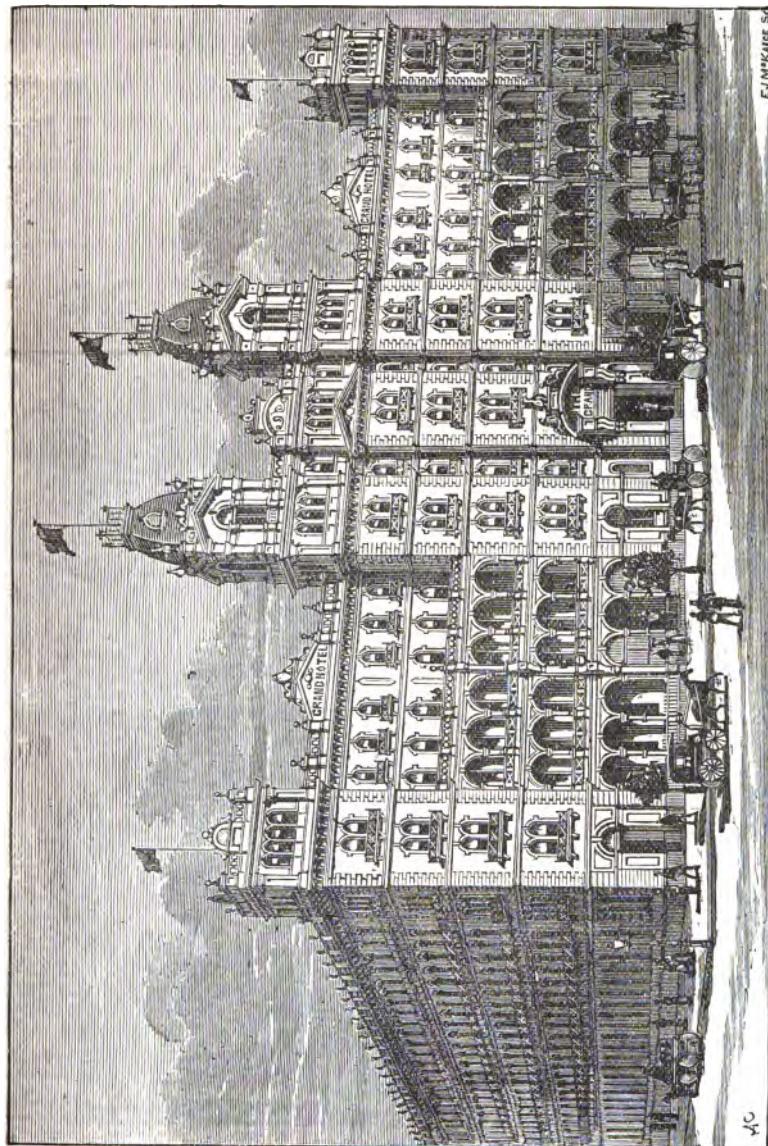
46 Collins Street East. Robert Lormer, Secretary.

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The Victorian Permanent Building Society

VICTORIAN EXHIBITS.

47



THE GRAND HOTEL,

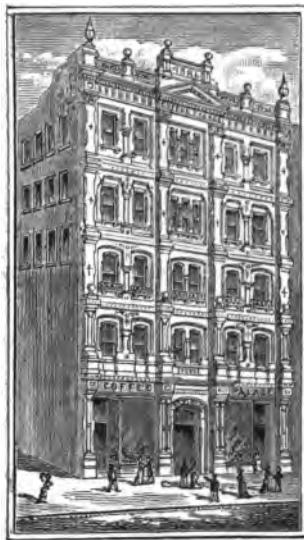
OPPOSITE HOUSES OF PARLIAMENT, MELBOURNE,
Contains 400 Rooms—Private Rooms *en suite*; Grand Saloon, 108 ft. long, lighted by Electricity; elegant Restaurant, Telephone Waygood's Patent Safety Ram Lifts, 32 Hot and Cold Baths, Latest Sanitary Improvements.
GRAND COFFEE PALACE CO., Proprietors.

LEND'S MONEY AT LOWEST RATES.

46 Collins Street East. Robert Lormer, Secretary.

LENTS MONEY AT LOWEST RATES.

MELBOURNE COFFEE PALACE



89 BOURKE STREET EAST.

The Melbourne Coffee Palace, 89 Bourke-st. East, was the first building specially built for the purpose in Melbourne. Since its establishment in 1882 it has been a marked success. Situated in the very heart of the city, it occupies a position unequalled for convenience to country visitors, who find all places of amusement and tram routes within a few yards of the entrance. The hotel is fitted with hydraulic lifts and every modern convenience, and accommodates 250 visitors. The Tariff of Charges is—Single Bedrooms, 2s. 6d. per night, or 15s. weekly; and meals, *a la carte*, 1s. and upwards. In 1886, owing to the great increase of business, an adjoining property was bought and a large wing added. The total cost of the establishment is over £90,000, and since the day of opening it has paid dividends at the rate of 10 per cent. It is owned by the Coffee Taverns Co. Ltd.; Directors—Messrs. Wm. M'Lean, J. A. Kitchen, W. H. Leonard, and W. Small. The great success of the Company here has induced the starting of an establishment at the corner of Young, Bent, and Phillip Sts., Sydney, which will be on a still larger scale, and cost over £100,000, and is expected to open for business in July, 1889. Mr. W. P. Small is the manager of the Company, and has held the position during the last nine years.

- 119 National Bank of Australasia, Collins-st., Melbourne.—Exhibit.
120 Nettleton, C., Gertrude-st., Fitzroy.—Photographs.
121 Noone, J., Crown Lands Office.—Photographs.
122 Paterson Bros., 68 Lygon-st., Carlton.—Photographs.
123 Perry, G. W., Raglan-st., South Melbourne.—Photographs.
124 Picturesque Atlas Publishing Co. Ltd., 14 Wynyard-square, Sydney.—Photography on wood, specimens and proofs of same.
125 Pierce, J. D., Alma-rd., St. Kilda.—Photographs.
126 Porteous, W., Mitta Mitta.—Photographs.
127 Reid, J. A., and Howitt, A. W., Sale, Gippsland.—Micro-photographs of woods and animal tissues.

- 128 Rider, A. F., Nelson-place, Williamstown.—Photographs.
129 Rudd, C., Bourke-st. East, Melbourne.—Photographs.
130 Sale Borough Council, Sale.—Exhibit.
131 Sabelberg, C., 21 Collins-st. East, Melbourne.—Photographs.
132 Sandhurst City Council, Sandhurst.—Exhibit.
133 Small, J. W., & Co., Collins-st. East, Melbourne.—Photographs.
134 Stewart & Co., Bourke-st. East, Melbourne.—Show cases.
135 Stewart, W. S., & Co., 109 Elizabeth-st., Melbourne.—Photographs.
136 Tuttle, W. N., Burwood-rd., Hawthorn.—Photographs.
137 Tuttle & Co., Elizabeth-st., Melbourne.—Photographs.
138 Victoria Camera Club, Darling-st., South Yarra.—Photographs.
139 Victoria Coffee Palace.—Exhibit.



**VICTORIA COFFEE PALACE,
COLLINS STREET EAST.**

Breakfast and Diningrooms open from 5 a.m. to 12 p.m. 300 Beds. Electric Light in Bedrooms and Corridor. No fear of Fire. Billiardroom. Hot and Cold Baths. Hydraulic Lifts. Night Porter.

46 Collins Street East. Robert Lormer, Secretary.

- 140 Victorian Railways, Spencer-st., Melbourne.—Exhibits.
- 141 Webb & Webb, Swanston-st., Melbourne.—Photographs.
- 142 Wood, D., Bank-st., South Melbourne.—Photographs.

Class 13.—Musical Instruments.

- 143 Bach, H. H., 33 Alexandra-st., South Yarra, Melbourne.—Violins and other instruments, by old masters. Violins, cases, stands, &c.
- 144 Brown, W. J., 56 Little Collins-st. East, Melbourne.—Violins.
- 145 Cope & Roberts, 37 Bell-st., Fitzroy, Melbourne.—Musical instruments, in varnish, believed to be a revival of real Cremonese. Manufacturers of the "Cremona Rediviva" Copeus et Robertus violins, violas, violin-cellos, &c. Unsurpassed in quality, tone, and appearance. Instruments made to order on any model desired. Brilliant Cremonese varnish in four colours, viz.:—Brown, ruby, orange, and gold; any shade, from the very lightest to the darkest tints. An instrument varnished with this preparation will remain ever free from wood worms, and will endure for centuries. If desired, the old inferior varnish can be removed from instruments and this elegant preparation applied, which will beautify, preserve, and improve the instrument.
- 146 Dadswell, S. O., 79 Lonsdale-st. E., Melbourne.—Banjos of various kinds, handle veneered.
- 147 Dow, W. H., 11 Church-st., South Melbourne.—Violins, varnished and unvarnished, various kinds.
- 148 Fincham, G., Richmond, Melbourne.—Organ.
- 149 Feiss Brothers, Chapel-st., Windsor, Victoria.—Two orchestrions, with 18 and 8 barrels respectively; orchestrionette, with calendar clock.
- 150 Hamblin & Sons, High-st., Kyneton, Victoria.—Iron-framed pianos, in native walnut, various heights.
- 151 Haughton, C., jun., 27 Faraday-st., Carlton, Melbourne.—Electro-plated banjo, with gilt engravings all round.
- 152 Lewis, H. F., Bothwell House, Rathdown-st., Carlton, Melbourne.—Two violins, one being of Australian blackwood.
- 153 Middleton, J., Dooen Post Office, South Gippsland.—Violin, made by the exhibitor from native orangewood of South Gippsland.
- 154 Nelson, H., Moonambel, near Avoca.—Violin, in glass case—back of violin consisting of about 50 pieces of wood, chiefly Australian.
- 155 Peacock, J., 1 Elgin-terrace, Elgin-st., Carlton, Melbourne.—Violins, of colonial make. Bows for ditto.
- 156 Pennington, R. E., Amess-st., North Carlton.—Banjo.
- 157 Shrimpton, —, Upper Autumn-st., West Geelong.—Two violins, of native workmanship.
- 158 Strangwood, F. E., Canterbury-road, Albert Park, Melbourne.—Two violins Victorian manufacture; one do. do., colonial woods, excepting bridge.

- 159 Tregellas, T. H., Lower Huntly, Sandhurst.—Tin violins made by an amateur (a blacksmith) in spare time.
- 160 Weatherill, 287 Bridge-road, Richmond, Melbourne.—Walnut and ebonised piano.

Class 14.—Mathematical and Philosophical Instruments.

- 161 Browning, J. P., M.D. et Ch.B., J.P., Quarantine Station, Pt. Nepean, Victoria.—Philosophical and scientific apparatus, electrical machines, &c.
- 162 Crellin, W., Napier-st., Fitzroy, Melbourne.—Crellin's complete traverse table. Crellin's *Rekentafel*, a multiplication table up to 999 times 999.
- 163 Galopin, Henri, 69 Bourke-st. W., Melbourne.—Chemical balances, hydrometers, aneroids, &c.
- 164 Gaunt, T., 14 Bourke-st., Melbourne.—Philosophical instruments.
- 165 Govett, C. H., Pastoria, Kyneton, Victoria.—Mathematical instruments, with work by Laine.
- 166 Jennings, J., 99 Queen-st., Melbourne.—Gold and silver and steel spectacles and eye glasses.
- 167 Laurence, A., 32 Flinders-lane, Melbourne.—Philosophical instruments.
- 168 Marks, B., 168 Gatehouse-st., Parkville.—Spectacles and eye-glasses, optical sundries and appliances.
- 169 Wigmore, R. W., 28 Queen-st., Melbourne.—Speculum for reflecting telescope, 18 in. in diameter, with adjustments.
- 170 Wood, W. & Co., Carson-place, Little Collins-st. East, Melbourne.—Collection of optical and mathematical instruments.
- 171 Yeates, H., 7 Park-st., South Melbourne.—Electrical instruments and clocks.

Class 15.—Maps, and Geographical and Cosmographical Apparatus.

- 172 Bryer, W. H., 52 Moor-st., Fitzroy, Melb.—Map of Victoria, composed of Australian stamps, divided into counties, in different coloured stamps.
- 173 Department of Lands and Survey of Victoria, Melbourne.—Continental map of Australia, colony of Victoria; contour map of Melb.
- 174 Maxwell, C. F. M., 81 Chancery-lane, Melb.—Map of Melbourne and suburbs, by Allen & Tuxen.
- 175 Picturesque Atlas Publishing Co., Wynyard-square, Sydney.—Engraved maps, original manuscript maps and specimens, &c.
- 176 Sands & M'Dougall Ltd., 44 Collins-st. W., Melbourne.—Maps.
- 177 Year Book of Australia, 83 Swanston-st., Melbourne.—Map of Australia, the ground being composed of the mineral underlying each district.

III.

Furniture and Accessories.

Class 16.—Furniture.

178 Alcock & Co., Russell-st., Melbourne.—Two full-sized billiard tables, &c.

ALCOCK & CO.,
132 RUSSELL STREET.



Billiard Tables on View in Main Hall; also, in Avenue of All Nations.

179 Altman, L. J., 2 Josephine-terrace, Albert-st., E. Melbourne.—Household furniture.

180 Barlow & Sons, City-road, South Melbourne.—Enamelled wood mantelpiece.

181 Bennett, S., & Son, 41 Lonsdale-st. W., Melbourne.—Furniture in choice colonial woods.

182 Beyle, D., & Son, Forest-hill, Nunawading, South Bourke, Victoria.—Two rustic seats, two rustic chairs, two arm-chairs, two flower stands.

183 Burke, J., Sydney-road, Brunswick.—Enamelled mantelpieces.

184 Byron, J. J., Canning-st., North Carlton, Melbourne.—Overmantel made in walnut and red-gum, with grapes carved.

185 Carter, James, & Son, 241 Clarendon-st., South Melbourne.—Toilet glasses.

186 Carr & Sons, 131 Spring-st., Melbourne.—Every description of window blinds.

187 Clark Bros., City-road, South Melb.—Window blinds, shutters, wire blinds, doors, cornices, &c.

188 Clausen & Foley, 175 Bourke-st. E., Melbourne.—Furniture, upholstery, &c.

189 Cohen Bros. & Co., corner of Lonsdale and Exhibition Sts.—Bedroom suite of picked colonial woods, of original design.

190 Collie, T. G., William-st., Melbourne.—Spring mattresses.

191 Craig, Williamson & Thomas, 6, 14, 16 Elizabeth-st., Melbourne.—Drawingroom, dining-room, and bedroom furniture.

In this exhibit there is shown for the first time "Ford's Patent Sliding-door Mirrored Wardrobe." This invention will prove advantageous to ladies and gentlemen, the door being so constructed as to enable the person using the wardrobe to have his or her figure reflected in any position required, thus dispensing with the use of cheval glasses.

Visitors are requested to see the working of this exhibit. The wardrobe was manufactured at Craig, Williamson and Thomas' Cabinet Factory, Little Collins-st. East, and is made entirely of colonial woods. Mr. Ford, the patentee, is manager of the firm's furniture department.

The wool sack ottoman, divan chair, with shaped bolster top, and corner ottoman, are the registered design of Craig, Williamson and Thomas.

The remainder of the drawingroom suite is upholstered in tapestry and plush in the Oriental style.

192 Cutting, John, Bourke-st., Footscray, Melbourne.—Carved picture frame, lady's pedestal, writing table, and carved footstool.

193 Dillett, J., & Sons, 10 Arden-st., Hotham.—Wicker and rattan furniture.

194 Eaton, G., Paterson-st., Abbotsford, Collingwood.—Rustic arm chairs, sittingroom chair, verandah chair in miniature, in selected woods.

195 Elfenbein, Jovey & Rickards, Barkly-st., W. Brunswick.—Chair and steps combined.

196 Farrar, W., 318 Johnston-st., Abbotsford, Melbourne.—Unique combined dual art furniture.

197 George & George Ltd., Federal Emporium and Equitable-buildings, Collins-st. E., Melb.—Settee, spring chair, gondola occasional chair, Eugenie, millinery, costumes, mantles, tea gowns, underclothing, children's costumes, gentlemen's shirts, scarfs, etc.

198 Glasscock, G., Enterprise Manufacturing Co., City-road, South Melbourne.—Wood enamel mantelpieces, imitation marble.

199 Gregory, H. P., & Co., 104 Bourke-st. W., Melbourne.—Spring mattresses and seats.

200 Hickner, J., 173 Exhibition-st., Melbourne.—Gilt overmantel, style, early English; drawing room suite set; drawing-room gilt table.

201 Kemp, R., 45 Freeman-st., North Fitzroy, Melbourne.—Imitation of wood and marble ornamental panels.

202 Kent, W., & Co., 103 Little Collins-st. E., Melbourne.—Dental and barbers' chairs.

203 Kirkam, B., Quambry Cottage, Fergie-st., North Fitzroy, Melbourne.—Walnut mantelpiece and ornamental card table.

204 Lornton, C., Page-st., Albert Park, South Melbourne.—Imitation of woods and marbles.

205 Lyster & Cook, 439 Smith-st., Fitzroy, Melbourne.—Bronzed hall stands, chairs, tables, umbrella stands, door scrapers, door porters, &c.

206 Martin, A. W., Pakington-st., St. Kilda.—Double and single clothes-racks.

207 Mertens, W., 62 Ferrars-st., South Melbourne.—Door to represent oak and walnut on one side, and decorative art on the other.

208 Miller, J., & Co., 201 & 203 High-st., St. Kilda, Melb.—Walnut drawingroom suite. Club divan chair. Bedroom suite, in walnut.

209 Moubray, Rowan & Hicks,—Massive dining suite, manufactured from Australian wood; walnut dining suite, &c.

210 Muschialli, 143 Russell-st., Melbourne.—Pier glass, carved wood frame.

211 McLean Bros. & Rigg, 69 Elizabeth-st., Melb.—Garden seats, theatre chairs, Turkish baths, spring mattresses, marble tables, ice chests.

212 Nichols & Co., 32 and 38 High-st., St. Kilda.—Chippendale cabinets, overmantel and mantelpieces, Japanese tables, Japanese cabinets.

213 Norling, J., 59 Latrobe-st. East.—Cabinet and chest of drawers, walnut.

214 Nunan Bros., 161 Elizabeth-st., Melbourne.—Furniture in various styles.

215 Paterson, C. H. S., Collins-st. East, Melbourne.—Furniture and upholstery.

216 Petersen, G. H., 184 Moray-st., South Melbourne.—Collection of Victorian wood shelves.

217 Pitt, T., & Co., Bedford-st., N. Melbourne.—Fireproof safes and strong-room doors.

218 Reid, R. & W., 2 Puckle-street, Moonee Ponds.—Enamelled wood mantelpieces; grates.

G. F. Pickles & Sons, Carriage Builders,

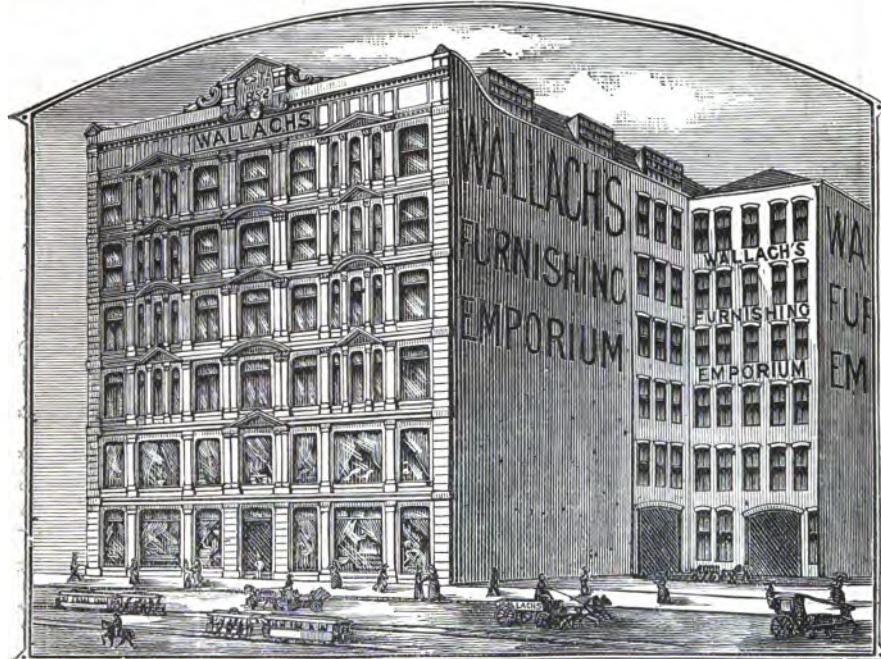
VICTORIAN EXHIBITS.

51

Landaus, Broughams.

400 Gold Medals and First Premiums.

- 219 Regaud, R., 62 Arden-st., Hotham.—Secretaire bookcase, walnut furniture.
- 220 Roberts, St. C., 77 Queensberry-st., North Melb.—Imitation of hardwoods—oak, maple, &c.
- 221 Rocke, W. H., & Co., 36 and 38 Collins-st. East, Melbourne.—Furniture.
- 222 Rojo, C. F., 16 Franklin-st., West Melbourne.—Variety of cornice poles, small fancy tables, wall brackets, &c.
- 223 Rutherford, W., 3 Rich Hill-terrace, Dudley-st., West Melbourne.—Fan, worked by foot.
- 224 Somers, Mrs. Sarah, Sydney-road, Brunswick.—Round table, inlaid with marble.
- 225 Steinfeld, E., President of Chamber of Manufacturers.—Reception room.
- 226 Strelein, C., Amess-st., North Carlton, Melb.—Lady's fancy table, inlaid with mother-of-pearl.
- 227 Sturtevant, A. B., 27 Brooks-st., North Fitzroy, Melbourne.—Lacquered fenders, fire-dogs, and brasses.
- 228 Thallon, J. & J., 95 Collins-st. East, Melbourne.—Picture frames, chimney glasses and overmantels.
- 229 Thomas, J., 130 Bourke-st. East, Melbourne.—Billiard tables and fittings.
- 230 Thomson, J., & Son, 20 Hotham-st., Windsor, Melbourne.—Imitation of woods and marbles on panels, pedestals—gold work on glass.
- 231 Townsend, H. G., Catherine-st., E. Richmond.—Lady's work table.
- 232 Train, W., & Co., Moray-st., South Melbourne.—Marble and enamelled mantelpieces.
- 233 Treasure, W., 225 Swanston-st., Melbourne.—Draught table of 230 Australian woods.
- 234 Turner & Chilver, City-road, South Melbourne.—Fancy tables and music stools.
- 235 Tye & Co., City-road, South Melbourne.—Iron bedsteads, woven wire mattresses, reversible wire door mats, &c.
- 236 Wedley, J., Smith-st., Collingwood, Melbourne.—Brass, brass-mounted, and iron bedsteads.
- 237 Wallach Bros., Elizabeth-st., Melbourne.—Furniture.



WALLACH'S, COMPLETE HOUSE FURNISHERS,
ELIZABETH STREET, MELBOURNE, NEAR POST OFFICE. 100,000 SQUARE FEET OF FLOOR SPACE.

We offer to all purchasers peculiar advantages, the Stock in each Department being as complete in all its details as that of a separate business, enabling customers to select every item required for completely furnishing any House, without the fatigues of visiting various establishments, thereby saving much time, trouble, and expense.

In our Numerous and Extensive Show Rooms will be found an immense assemblage of Dining and Drawing Room Furniture, Sideboards, Cabinets, Bedsteads and Bedding, Bedroom Suites in great variety of new designs, with novel and convenient arrangements. Upholstered goods, Couches, Settees, Ottomans, and Easy Chairs in the most comfortable and luxurious shapes. All kinds of Fancy Chairs, Tables, Brackets, &c., and Decorative Furniture of every description. Japanese and Indian Furniture we show in rooms set apart for that purpose, and Crockery, Ironmongery, and Electro-plated Ware Departments are well stocked, each and every article being marked in plain figures.

5, 7, & 11 Latrobe-st. W., Melb. Factory—Brunswick-st., Fitzroy.

VOL. I.

5 *

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- 238 Wehsack, F.,** 6½ Little Collins-st. East.—Furniture. A variety of lamps.
- 239 White & Smith,** 77 Dover-road, North Williamstown.—Patent circular extension table in cedar, polished.
- 240 Wiegman, A., & Co.,** 35 Post Office-place, Melbourne.—Java cane and willow furniture.
- 241 Wood, W. W., & Co.,** Post Office-place, Melbourne.—Book and show cases, steps, ladders, household and office requisites.
- Class 17.—Upholsterers' and Decorators' Work.**
- 242 Beeler, J. C.,** 18 Paterson-st., South Yarra, Melb.—Drawing decorations, ceiling and walls. Figure (life size) decoration, specimens, &c.
- 243 Blair, L. S., & Co.,** 147a Swanston-st., Melbourne.—Decorations.
- 244 Brettschneider, W.,** 11 Flinders-st. East, Melb.—Room, ceiling, and walls decorated in Renaissance style; ceiling panelled with medallions.
- 245 Bulley, W. G.,** 17 Newry-st., N. Fitzroy, Melbourne.—Various furniture.
- 246 Clausen & Foley,** 175 Bourke-st., Melbourne.—Upholsterers' and decorators' work.
- 247 Davis, J.,** Blind Asylum, Melbourne.—Window curtains, hand-netted.
- 248 Filler, W. G.,** Stephen-st., Melbourne.—Frames and mirror mouldings.
- 249 Fisher, W.,** Glenferrie-road, Hawthorn, Melbourne. Panelled door in imitation of various woods; do. decorated writing on glass.
- 250 Godley, W., & Co.,** 22 Chapel-st., Prahran, Melb.—Occasional drawingroom suite, samples of plush and wood mountings.
- 251 Henshaw, J.,** 194-196 Johnston-st., Collingwood.—Marble and enamelled wood mantels, wood turnery, cast-iron verandah posts, panels, &c.
- 252 Jackson, A.,** corner of Rae & Miller Sts., North Fitzroy, Melb.—Patent blind rollers and fittings.
- 253 Lyon, Wells, Cottier & Co.,** Collins-st. W., Melbourne.—Decorators' work.
- 254 Mc'Carthy, T. H.,** Newport Railway Workshops.—Two painted and grained panels, imitation oak.
- 255 Norman, W. J.,** 7 Collins-st. East, Melbourne.—Picture frames and mouldings of every description, finished and unfinished.
- 256 Paterson Bros.,** 35 Collins-st. East, Melbourne.—Decorative frieze for diningroom.
- 257 Paterson, C. S.,** Collins-st. E., Melbourne.—Designs for house decorations, furniture, &c.
- 258 Raine, Alfred,** 144 Cromwell-road, Collingwood, Melbourne.—Pair of papier-mâché vases.
- 259 Rowe, J. F., & Co.,** Drummond-st., Carlton, Melbourne.—Altar completely furnished.
- 260 Seidel, M. G.,** Wellington-st., Collingwood.—Sign writing.
- 261 Tiller, W. J.,** Eastern Market, Melbourne.—Frames, mirrors, and mouldings.
- 262 Tointon, C. H.,** Page-st., Albert Park.—Imitation of woods.
- 263 Victoria Patent Hydraulic Freestone Co.,** 56 Queen-st., Melb.—Pulpit front, Gothic window, panel, cornice, capitals, &c.
- 264 Williams & Son, J.,** 95 Bourke-st., Melbourne.—Glass show cases.
- 265 Wright, G.,** 147 St. Luke's Block, Clarendon-st., South Melbourne.—Walnut suite in plush and Genoa velvet; mantel drapery and fittings, &c.
- 266 Wylie, S.,** 54 Collins-st. East, Melbourne.—Decoration for end and over-side of drawingroom, showing complete treatment.
- 267 Young, T.,** 82 Chapel-st., Prahran, Melbourne.—Overmantel, embossed valance, and curtains.
- Class 18.—Carpets, Tapestry, and other Stuffs for Furniture.**
- 268 Bull, Blanche,** 13 Carlton-st., Carlton.—Prie-Dieu chair (tapestry).
- 269 Carter, H. J.,** Little William-st., Melbourne.—Venetian, spring, and roller blinds.
- 270 Clausen & Foley,** 175 Bourke-st., Melbourne.—Carpets, tapestry, &c.
- 271 Griffiths, G. F.,** 9 Elizabeth-st., Melbourne.—Floorcloth, &c.
- 272 Jackson, A.,** corner of Rae & Miller Sts., North Fitzroy, Melbourne.—Improved wire door mats.
- Class 19.—Paperhangings.**
- 273 Blake, H. C.,** Forest Hill, South Yarra, Melbourne.—Specimens of very old wall papers of different classes.
- Class 20.—Cutlery.**
- 274 Walker, F.,** Rose Cottage, Stead-st., South Melbourne.—Cutlery, pearl-handled fruit knives, do. fish knives, daggers, &c.
- 275 M'Millan, A.,** 13 Little Lonsdale-st., Melbourne.—Tobacco cutters, knife cleaners, tin openers, novelties.
- Class 21.—Goldsmiths' and Silversmiths' Work.**
- 276 Armfield, S. W.,** 202 Gertrude-st., Fitzroy.—Jewellery.
- 277 Bowman, A. C.,** 95 Brunswick-st., Fitzroy.—Champ-lens and repoussé enamelling on gold and silver jewellery, crests, arms, and monograms, etc.
- 278 Edwards & Kaul,** 5 Collins-st. West, Melbourne.—Gold and silver plate, jewellery, Australian products mounted in gold and silver.
- 279 Edwards, C.,** 22 Moray-st., South Melbourne.—Carved emu eggs, silver mounted.
- 280 Gartner, W.,** metal spinner, Royal-lane, Melb.—Emu egg mounts, sporting cups, reflectors, general gold and silver smiths' work.
- 281 Henty, F.,** 11 Little Collins-st. West, Melbourne.—Plate.
- 282 Hills, R.,** 175 Swanston-st., Melbourne.—Colonial-made gold jewellery.
- 283 Lewis, T. P.,** 118a Chapel-st., Prahran.—Electroplate, emu egg ornaments, epergnes, etc.; plate powder.
- 284 Miller, J., & Co.,** 145 Lonsdale-st. West, Melbourne.—Electroplated ware.
- 285 Robottom, H. J.,** 83 Swanston-st., Melbourne.—Embossing in silver and copper.
- 286 Stokes & Martin,** 29 Little Collins-st., Melbourne.—Electroplated goods, colonial manufactured.

5, 7, & 11 Latrobe-st. W., Melb. Factory—Brunswick-st., Fitzroy.

G. F. Pickles & Sons, Carriage Builders,

Largest Builders of High-class Carriages and Buggies in Australia.

Class 22.—Bronzes and various Art Castings and Repoussé Work.

- 287 **Gaunt, T.**, 14 Bourke-st., Melbourne.—Collection of church plate and altar furniture, electro-plate and repoussé work.
- 288 **Howard, A.**, 51 Lower-flat, Eastern Market, Melbourne.—Bronzes, various art castings, all descriptions of stamps.
- 289 **Miller, J., & Co.**, 145 Little Collins-st. East, Melbourne.—Bronzes, various figures.
- 290 **Sturtevant, A. B.**, 27 Brooks-st., N. Fitzroy, Melbourne.—Small electrotype figures and busts; medallions, electrotyped.
- 291 **Victorian Nickel Plating Co.**, 134 Russell-st., Melbourne.—Nickel-plated fender and fire-irons; bedsteads.

Class 23.—Clocks and Watches.

- 292 **Byron, J. T.**, Canning-st., North Carlton, Melbourne.—Clock made with ten different woods, to go with overmantel.
- 293 **Edwards, J. B.**, Pall Mall, Sandhurst.—Pendulum clock.
- 294 **Gaunt, T.**, 14 Bourke-st. East, Melbourne.—Large turret clock, chiming quarters and striking hours; mauve chronometers.
- 295 **Groth, Bate & Tansley**, Elizabeth-st., Melbourne.—Watches and watch movements.
- 296 **Philippe, A.**, 144 Collins-st. East, Melbourne.—Bronze mantel clocks.
- 297 **Somers, A. T.**, Sydney-road, Brunswick.—Musical block in cedar case.

Class 24.—Perfumery.

- 298 **Ball, W.**, 61 Bourke-st., Melbourne.—Toilet articles.
- 299 **Blogg, J. K., & Co. Ltd.**, City Road, South Melbourne.—Perfumery.
- 300 **Bowen, W., & Co.**, 45 Collins-st., Melbourne.—Perfumery, aromatic vinegar, mosquito lotion.
- 301 **Joshua Bros.**, 5 Queen-st., Melbourne.—Scents.
- 302 **Kingsland, G., & Sons**, William-st., Melbourne.—Perfumery.
- 303 **Longmore, F.**, 138 Bourke-st. E., Melb.—Raw materials used in manufacturing perfumery; perfumery, cherry tooth paste, lavender water.
- 304 **Moore, J. B.**, Vauxhall Gardens, Pannure, Victoria.—Perfumery.
- 305 **Potte, W. H.**, 69 Bourke-st. W., Melbourne.—Toilet vinegar, lavender water, bay rum, hair wash.
- 306 **Wilson, W.**, Sydney-road, Brunswick.—Perfumery products, and raw material used in the manufacture for perfumery.

Class 25.—Leatherwork, Fancy Articles, and Basketwork.

- 307 **Aret, E.**, 34 Clarendon-st., South Melbourne.—Artificial plants, firescreens, baskets, leaves.
 - 308 **Arnall & Jackson**, Collins-st. W., Melbourne.—Leatherwork, fancy articles, address and Bell cases.
 - 309 **Blackmores, J.**, 131 Wellington-st., Collingwood.—Boots and cases of colonial manufacture.
 - 310 **Caldaed, J.**, Moreland-road, Brunswick.—Mirror brackets.
 - 311 **Clay, I. E.**, St. David and Henry Sts., Windsor.—Frame of fancy hair-work.
 - 312 **Cushing & Co.**, Collins-st. West, Melbourne.—Brushes, &c.
 - 313 **Fielder & Co.**, 18 Franklyn-st., West Melb.—Plush jewel cases, satin jewel cases, fancy cardboard boxes.
 - 314 **Gibaud & Son**, Smith-st., Fitzroy.—Brushware.
 - 315 **Heber, D. E.**, Wangaratta-st., Richmond, Melb.—Pair of handworked mounts, with photos of Sir H. B. and Lady Loch; group of mounts.
 - 316 **Lacey & Osborne**, 110 Collins-st. E., Melb.—Ladies' baskets.
 - 317 **Rivers & Ipson**, Fitzroy-st., Victoria-parade, Melbourne.—Collection of wood turnery.
 - 318 **Rosenthal, S.**, 1 Little Collins-st. E., Melb.—Meerschaum, briar pipes, raw meerschaum, raw amber.
 - 319 **Ryemill & Fischer**, 80 Flinders-lane E., Melbourne.—Ladies' and gentlemen's trunks of solid leather, hide, pigskin, &c.
 - 320 **Sands & M'Dougall Ltd.**, 46 Collins-st. W., Melbourne.—Leatherwork, fancy.
 - 321 **Simmons, Mrs.**—Artificial flowers.
 - 322 **Todd, J.**, 125 Chapel-st., South Yarra.—Case of fancy articles in fretwork.
 - 323 **Victorian Asylum and School for the Blind**, St. Kilda-road, Prahran, Melbourne.—Brushware, wickerware, mats, &c.
 - 324 **Walls, J.**, 49 Bridge-st., Richmond, Melbourne.—Ladies' trunks, school bags, and straps.
 - 325 **Walker, J. A.**, Orrong-road, Armadale.—Specimens of plain and fancy box-making, shop and window fittings for drapers, &c.
 - 326 **Winnacott, J.**, Bourke-st., Kyneton, Victoria.—Emu eggs, walking-sticks, whip handles, &c.
 - 327 **Zevenboom, J.**, 223 Elizabeth-st., Melbourne.—Brushware and brooms.
- John Zevenboom,
223 ELIZABETH STREET, MELBOURNE,
WHOLESALE PAINT AND BRUSH MANUFACTURER; also
AMERICAN BROOMS.
— Established 1861. —
- The first Manufactory established (in this line) in the Southern Hemisphere.

G. F. Pickles & Sons, Carriage Builders,

IV.

Fictile Manufactures, Glass, Pottery, &c.

- Class 26.—Crystal, Glass, and Stained Glass.**
- 328 Blair, L. S., & Co., 1 and 7A Swanston-st., Melbourne.—Mirrors.
- 329 Brettschneider, W., 11 Flinders-st. E., Melbourne.—Embossed glass panels, silver and gilded for advertising purposes.
- 330 Brooks, Robinson & Co., 39 Elizabeth-st., Melbourne.—Stained-glass church window, stained-glass domestic window, embossed and silvered glass.
- 331 Carter, J., & Son, 241 Clarendon-st., South Melbourne.—Huon pine, cedar, and blackwood glass ovals.
- 332 Campi, A., 122 Russell-st., Melb.—Mirrors.
- 333 Collyer, R. W., & Son, Royal-lane, Little Collins-st. E., Melb.—Bent and engraved glass.
- 334 Danks, J., & Son, 42 Bourke-st. W., Melb.—Sand blast glass, marble, brassware, electroplate.
- 335 Drew, J., 4 Douglas-terrace, South Melb.—Engraved and cut glassware.
- 336 Elliott, G. L., 13 Lower-flat, Eastern Market.—Decanters, glass engravers' lathe at work.
- 337 Floyd, Greene & Co., Type-st., Richmond.—Gas globes, kerosene globes, electric light globes, rum barrels cut, propagating glasses, &c.
- 338 Harrison, T. S., & Co., 24 Little Collins-st. East, Melbourne.—Aerated water and other bottles.
- 339 Jeyses, G., & Co., 18 Cook-st., East Collingwood.—Engraved and cut glass.
- 340 Leveson, N., Little Leveson and Queensberry Sta., Hotham, Melb.—Transparencies on glass, embossed glass.
- 341 Manger, G., 97 Little Collins-st., Melbourne.—Cut-glass globes, fanlights. The art of engraving shown.
- 342 Melbourne Glass Bottle Works, Graham-st., South Melbourne.—Glass bottles.
- 343 Rowe, J. F., & Co., 3 Zabulon-terrace, Drummond-st., Carlton, Melbourne.—Stained-glass windows.
- 344 Seekamp, F. W., Reeve-st., Clifton Hill, Melbourne.—Vases, cups, &c.
- 345 Smyrk & Rogers.—Stained-glass windows (*see page 55*).
- 346 Train, W., & Co., Moray-st., South Melbourne.—Embossed, stained, and cathedral glass.
- 347 Wenborn, W. A., 2 Hansen's Buildings, Little Collins-st. E., Melbourne.—Glass cases, jeweller's show stands, with velvet and otherwise.
- Class 27.—Pottery.**
- 348 Australian Brick & Tessellated Tile Co., Mitcham.—Tessellated, encaustic, and geometrical pavements, terra-cotta vases, tiles, &c.
- 349 Australian Gas Retort and Brick-Manufacturing Co., Toorak-road, South Yarra.—Fire-clay, gas-retorts, &c.
- 350 Bendigo Pottery Co., Epsom, near Sandhurst.—Open Dresdenware flower vases, centre-pieces, frames for photos, Bristolware, &c.
- 351 Bradley, H., & Son, Smith-st., Collingwood.—Clay pipes.
- 352 Brough, J., Victoria Pottery, Lal Lal.—Collection of useful pottery and terra-cotta ware.
- 353 Cawkwell, H. A., High-st., Malvern, Melb.—Mosaic, encaustic flooring; tiles, in frames.
- 354 Cornwell, A., Phoenix-st., Brunswick.—Sanitary drain pipes and general potteryware.
- 355 Essendon Brick Co., 16 Collins-st. West, Melbourne.—Bricks, tiles, etc.
- 356 Ethell, T., Jasper-road, E. Brighton.—Bricks.
- 357 Ferry, G. R., Terra-cotta Works, Brunswick.—Samples of building stones in terra-cotta.
- 358 Hoffman Brick Co., 55 Queen-st., Melbourne.—Bricks and tiles.
- 359 Hydraulic Freestone Co. Ltd., Queen-st., Melbourne.—Freestone, &c.
- 360 Knight, E., & Co., Lal Lal.—Ornamental bricks.
- 361 Murphy, E., City-road, South Melbourne.—Garden fountain, vases, centre flowers, &c.
- 362 Newham, G., Elizabeth-st., Malvern, Melb.—Mosaic tiles, agricultural pipes, roofing tiles, busts, garden edgings.
- 363 Nolan, L., Gill Brook Potteries, Park-st. W., Melb.—Glazed stoneware, drain pipes, artistic vases, chimney pots, fire bricks, &c.
- 364 Portarlington Brick & Tile Co., Portarlington, Victoria.—Bricks and tiles of various colours and designs and terra-cotta.
- 365 Rollo, J., Yarragon, Victoria.—Samples of Victorian clays suitable for brickmaking, terra-cotta, porcelain, &c.
- 366 Sims, G. J., Burford, Middle Brighton, Melbourne.—Art jugs.
- 367 Train, W., & Co., Moray-st., South Melbourne.—Marble and encaustic tiles.
- 368 Victoria Pipe, Tile, & Pottery Works, Shamrock-st., Essendon.—Agricultural drain pipes, gutter tiles, garden border tiles, gutter bricks, &c.
- 369 Victoria Terra Cotta Co., 15 Market-place, Collins-st. West.—Building materials.
- 370 Wilson & Ridge, Fehon-st., Yarraville.—China, earthenware, pottery, tiles, and terra-cotta.

V.

Textile Fabrics, Clothing, and Accessories.

- Class 29.—Thread and Fabrics of Flax, Hemp, Jute, &c.**
- 371 Donaghy & Sons, Geelong West, Victoria.—Rope and cordage.
- 372 Miller, J., & Co., 5A Queen-st., Melbourne.—Rope, cordage, twines, mats.
- 373 McLaren & Co., 222 Elizabeth-st., Melb.—Canvas, linen, and twill duck, &c., used in manufacture of flags, tents, &c.
- 374 Parsons & Lewis, Victoria-st., Carlton.—Hair fibre for manufacture of brushware.

Smyrk & Rogers, 166 Little Collins-st. E., Melbourne.—Several stained-glass windows.

BY SPECIAL APPOINTMENT TO

His Excellency



Sir Henry B. Loch, K.C.B.

HIGHEST COLONIAL AWARD, ADELAIDE EXHIBITION.

CHARLES ROGERS, LATE SMYRK & ROGERS,

(LATE OF LONDON),

ARTISTS AND MANUFACTURERS

OF

ARTISTIC AND DOMESTIC

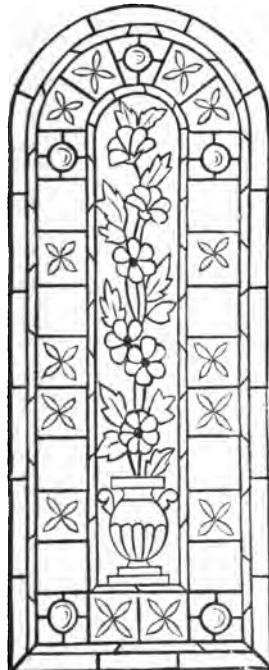
STAINED GLASS,

FOR

CHURCHES, PUBLIC BUILDINGS, AND DWELLING HOUSES.

ESTIMATES AND DESIGNS FREE.

Works: 166 Little Collins Street East, Melbourne.



A FEW PLACES
IN WHICH SPECIMENS OF OUR WORK MAY
BE SEEN:—

THE GOVERNOR'S RESIDENCE,
Mt. Macedon;

NEW HOUSES OF PARLIAMENT
at Adelaide;

SIR E. T. SMITH,
Mayor of Adelaide;

DALGETY & CO., Bourke Street W.;

Messrs. WISEMAN BROS., Glenroy;

ST. MARY'S CHURCH, Hotham;

CARMELITE CONVENT,
South Melbourne;

COL. TURNER, Hawthorn;

R. KINGSTON, Esq., Camberwell;

FOXHALL'S
BALLARAT STAR HOTEL,
Swanston Street.



5, 7, & 11 Latrobe-st. W., Melb. Factory—Brunswick-st., Fitzroy.

G. F. Pickles & Sons, Carriage Builders,

56

MELBOURNE CENTENNIAL INTERNATIONAL EXHIBITION.

Largest Builders of High-class Carriages and Buggies in Australia.

- Class 31.—Woollen Yarn and Fabrics.**
- 375 Ballarat Woollen Co., Ballarat.—Woollen tweeds and worsted tweeds.
- 376 Castlemaine Woollen Co., Castlemaine.—Flannels and blankets.
- 377 Corrie, W., 21 A'Beckett-st., Melbourne.—Bedding material.
- 378 Evans, T., Bourke-st. West, Melbourne.—Flags, loin covers, horse covers.
- 379 Gault, E. & W., Williamstown.—Tweeds, serges, and worsted cloth.
- 380 Gray, A., & Co., Albion Woollen Mills, Geelong.—Woollen tweeds.
- 381 Munro, A., & Co., Yarraville, Melbourne.—Various kinds of cloth.
- Class 32.—Silk and Silk Fabrics.**
- 383 Eager, C. F., Kingmore-terrace, St. Kilda-road, St. Kilda.—Raw silk.
- 384 Rees, T., Bealiba, Victoria.—Raw silk.
- Class 34.—Lace, Net, Embroidery, and Trimmings.**
- 385 Armfield, G. H., 26 & 28 Stanley-st., Collingwood, Melbourne.—Masonic and friendly societies' regalia.
- 386 Burrage, T. A., 5 Queen's Walk, Collins and Swanston-sts., Melbourne.—Naval, military and masonic embroidery; embroidered ornaments for fancy dress costumes; embroidered badges for fire brigades and railway officials.
- 387 Dunning & Co., 98 Russell-st. South, Melbourne.—Fancy costumes, gold lace, silver do., embroidery.
- 388 Leblanc, A., 144 Chapel-st., South Yarra, Melbourne.—Hand-made embroidery, fire screen, cushion.
- 389 Martin, C. R., 3 Flinders-lane East, Melb.—Masonic and friendly societies' regalia, gold and silver, military, and church embroidery.
- 390 Rowe, J. F., & Co., 3 Zebulon-terrace, Drummond-street, Carlton, Melbourne.—Church vestments, banners, canopies, embroidery, &c.
- Class 35.—Hosiery and Underclothing and Accessories of Clothing.**
- 391 Atkinson, E. K., 102 Collins-st. E., Melbourne.—Elastic stockings, corsets, &c.
- 392 Ball and Welch Ltd., Carlton, Melbourne.—Ladies' underclothing.
- 393 Brown, W., & Co., 159 Flinders-st., Melbourne.—Embroidered jersey for seaman.
- 394 Craig, Williamson & Thomas, 6, 14, 16 Elizabeth-st., Melbourne.—Underclothing.
- 395 De Saxe & Co., T., 7 William-st., South Melbourne.—Umbrellas, parasols, and walking-sticks.
- 396 Dorgan Bros., 31, 38, 39 Barkly-st., Carlton.—Ladies' and children's underclothing, baby linen, quilted and other skirts, frillings, &c.
- 397 Durnsday, G., Nicholson's Chambers, Swanston and Collins-st. East, Melbourne.—Parisian scientific system of dress-cutting.
- 398 Ferne, A. W., & Co., 84 Lonsdale-st. East, Melbourne.—Clothing and general outfitting.
- 399 Gittus, T., 90 Swanston-st., Melbourne.—Umbrellas and parasols.
- 400 Kelly, Eliza, 86 Smith-st., Collingwood, Melbourne.—Feathers, laces, &c.
- 401 Masseran, Madame Jeune, 3 Belgrave, Fitzroy, Melb.—Corsets and ladies' underclothing.
- 402 Polglase, J. H. P., 64 Queensberry-st., North Melbourne.—Ladies' and children's underclothing, sun-bonnets, pinafors, eiderdown quilts.
- 403 Sievewright, C. F., 11 Durham-st., South Melbourne.—Patent article of neck-wear.
- 404 Soulie de Courtet, Madame, 92 Russell-st., Melb.—Stays of every description; ladies' belts.
- 405 Spedding, J. D., 17 and 19 Royal-arcade, Melbourne.—Baby linen, ladies' underclothing, and children's costumes.
- 406 Steele & Wedge, 2 and 5 Beehive-chambers, Elizabeth-st., Melbourne.—Custom shirts and gents' furnishing goods.
- 407 White, G., & Co., 7 Federal-building, Park-st., South Melbourne.—Ladies' corsets.
- 408 Youl & Co., 18 Clarendon-st., South Melbourne.—Hosiery goods, wool, cotton, and silk, guernseys, drawers, jerseys, scarfs, &c.
- Class 36.—Clothing for both Sexes.**
- 409 Beath, Schiess & Co., 63 and 65 Flinders-lane E., Melb.—Boys', youths', and men's clothing.
- 410 Benjamin & Co., 54 Swanston-st., Melb.—Tailoring, &c.
- 411 Berkovitz, C., 142 Russell-st., Melbourne.—General's hat, Paris do., lady's riding hat, black opera do., clerical do., coachman's do.
- 412 Blackmore, J. B., 131 Wellington-st., Collingwood.—Boots and shoes.
- 413 Brown, H. A., 2 Club-lane, Little Collins-st., Melb.—Silk, helmet, and opera hats.
- 414 Brown, J. C., & Son, 92 Swanston-st., Melb.—Theatrical wigs, dress wigs, and ornamental hair work.
- 415 Brown, W., & Co., 157 Flinders-st., Melb.—Gentlemen's clothing.
- 416 Cantor & Loel, Elizabeth-st., Melbourne.—Juvenile and men's clothing, tweeds.
- 417 Clarke, D. J., Geelong.—Hats.
- 418 Coutie, J., 149 Elizabeth-st., Melb.—Boots, shoes, and slippers; boots, shoes, &c., for stage and athletic purposes.
- 419 Craig, Williamson & Thomas, 6, 14, 16 Elizabeth-st., Melbourne.—Millinery, mantles, costumes; bridal dinner, ball, and walking costumes, and rain-proof cloaks; trimmed hats and bonnets, bridal veil and wreath; ladies' and children's underclothing, pinafors, pelisses, tunics, and babier baskets.
- 420 Crowley, C., 1 Little Lonsdale-st., Melb.—Models for display of drapers', tailors', wigmakers' and bootmakers' goods.
- 421 Denton Mills Hat Factory Co. Ltd., Nicholson-st., Collingwood, Melb.—Rabbit skins prepared for felting; fur, wool-carded hat.
- 422 Dunning & Co., 98 Russell-st. South, Melbourne.—Fancy costumes for gentlemen, ladies, and children.
- 423 Ellenberg & Zeltner, 4 and 5 Exhibition st., Melb.—Waterproof clothing, rugs, sheets, and rubber goods.
- 424 Gemmell, J., North Beechworth.—Patent steel soles, for protecting boots.
- 425 Glass, B., 7 and 9 Queensberry-st., North Melbourne.—India-rubber waterproofs.
- 426 Golding, A., Balwyn-road, Canterbury Railway Station, Victoria.—Lawn tennis, cricket, bicycle, and running boots and shoes, &c.

5, 7, & 11 Latrobe-st. W., Melb.

Factory—Brunswick-st., Fitzroy

G. F. Pickles & Sons, Carriage Builders,

- 427 Goode, Harriet A., 11 Eastern-arcade, Bourke-st. E., Melb.—Ladies' costumes, hats, bonnets, &c.
 428 Guest, J. M., 15 John-st., Fitzroy, Melbourne.—Ladies' and gentlemen's boots and shoes.
 429 Hall, A. J., 41 Swanston-st., Melbourne.—Boots and shoes.
 430 Henderson, S., Ceylon-st., Richmond.—Habits, collars, fronts, &c.
 431 India-Rubber, Gutta - Percha, and Telegraph Works Co. Limited. Australian Branch, 127 RUSSELL-STREET, MELBOURNE. Jas. Wilson, Manager.

Waterproof Clothing, &c.

This exhibit includes:—Waterproof Coats of every description, Capes, Regulation Cloaks, Inverness Capes, Leggings, Mantles, Rugs, Riding Aprons, Ground Sheets, Fishing Trousers and Stockings, Baptising Suits, Nursing Aprons, Bathing Caps, Sponge Bags, &c.
 (See also Exhibit in British Court, Machinery Annexe, Nos. 105 and 106.)

- 432 James & Ramsden, Ryrie-st., Collingwood, Melb.—Pump-sewn men's and women's boots, shoes, and slippers.
 433 Jeffries, G., Swanston-st., Melbourne.—Ladies' and gentlemen's lawn tennis boots and shoes, &c.
 434 Kelly, J. M., 188 Russell-st., Melbourne.—Boots, all hand-sewn, sundry kinds.
 435 Leblanc, A., 144 Chapel-st., South Yarra, Melbourne.—Ostrich feathers, dyed; ladies' hats, trimmed; samples of delicate dyeing.
 436 Lincoln, Stuart & Co., 109 Flinders-lane East, Melbourne.—Military and civilian clothing for men and boys.
 437 Marsh, J. J., 83 Sturt-st., Ballarat, Victoria.—Silk hats, hunting caps, helmets, &c.
 438 Merchant, E. J., Luton Hat Works, Clifton Hill.—Straw hats and plaited raw material.
 439 Moubray, Rowan & Hicks, Collins-st. West, Melbourne.—Costumes, millinery, &c.
 440 M'Guigan, J., 75 Elizabeth-st., Melb.—Riding boots, antihydrous do., podosocure do., for tender feet, &c.
 441 Paul, T., 49 Little Collins-st., Melb.—Collection of boots—Wellingtons, shooting, balmorals, patent leather.
 442 Rogers, A. J., 250 Napier-st., Fitzroy, Melbourne.—Manufactured boot and shoe uppers, boots and shoes.
 443 Rogers, G., Gertrude-st., Fitzroy.—Boots.
 444 Schanz, Madame, Clyde-st., St. Kilda.—Ladies' costumes.
 445 Steele, H., Clarendon-st., South Melbourne.—Gentlemen's walking suits, evening suits, jockey costumes, and overcoats.
 446 Vaillant & Elise, Mesdames, Collins-st., Melbourne.—Stays, corsets, &c.
 447 Wallworth, 55a Bourke-st. East, Melb.—"Umbris-solator," new summer, silk, dress, and mayoral hats.
 448 Welsh, F. A., 168 Montague-st., S. Melb.—Ladies' straw hats and bonnets, and gentlemen's straw hats.
 449 Willis, S., 6 Eastern-arcade, Bourke-st., Melb.—Ladies' boots and shoes.
 450 Wilde, J. R., & Co., Collingwood Tannery, Mollison-st., East Collingwood, Melbourne.—Boots and shoes.
 451 Wilson, J. W., 13 Chapel-st., Prahran, Melb.—Hats, caps, and helmets, of different styles and material.

Class 37.—Jewellery and Precious Stones.

- 452 Baghei Bros., G., 27 Eastern Arcade, Melbourne.—Alligators' teeth and curios, brooches, jewellery, etc.
 453 Blashki, P., 120 Bourke-st., Melbourne.—Gold and silver jewellery, cups, &c.
 454 Cadby, P. H., 85 Little Collins-st., Melbourne.—Jewellery and mounted emu eggs.
 455 Chapman, J., 5 York-st., Malvern-rd., Prahran, Melb. Hair-mounted in gold—Watch-guards, bracelets, rings, earrings, brooches, lockets, &c.
 456 Franks, G. W., Aston Villa, Elgin-st., Hawthorn.—Gold and silver art jewellery.
 457 Furzensen & Co., care L. Dernemberg, off William-st., North Brighton.—Australian flagree work, in genuine silver and gold plated thread.
 458 Marks, M. & J., Elizabeth-st., Melbourne.—Gold, diamond, and silver jewellery.
 459 Spink, H., 80 Flinders-lane East, Melbourne.—Lapidary work, in precious and other stones.
 460 Thie, A., 76 Cremorne-st., Richmond.—Precious stones, coins, medals, etc.; weapons, etc., and mineral ores.
 461 Walsh, J., Smith-st., Collingwood.—Fancy hair work.

Class 39.—Travelling Apparatus and Camp Equipage.

- 462 Biesenthal & Co., 164 Russell-st., Melb.—Bankers' cash bags, brief bags, Gladstone bags, portmanteaux, &c.
 463 Curtis, J., 9 Bourke-st. W., Melbourne.—Trunks, portmanteaux, bags, &c.
 464 Evans, T., 4 Bourke-st. W., Melbourne.—Tents, tarpoilins, water bags (canvas).
 465 Lacey & Osborne, 110 Collins-st. E., Melb.—Travelling and hand-bags, trunks, portmanteaux.
 466 Morgan, W., 14 Swanston-st., Melbourne.—Marquees, garden tents, surveyors' and other tents, and camp equipage.
 467 McLaren & Co., 222 Elizabeth-st., Melbourne.—Tents, tarpoilins, canvas water bags and coolers, hammocks and horse-covers.
 468 Paulsacker, Evans & Co., 8 Lonsdale-st. W., Melbourne.—Solid leather trunks, bags of all kinds from Victorian leather.
 469 Waller, R., 98 Toorak-road, South Yarra.—Trunks, portmanteaux, and bags.
 470 Wilson, C., 201 Elizabeth-st., Melbourne.—Tents, marquees, water bags, canvas troughs, &c.

Class 40.—Toys.

- 471 Altman, L. J., Albert-st., East Melbourne.—Games and toys.
 472 Bradley, H., & Son, 324 Smith-st., Collingwood, Melbourne.—Colonial-made toys, children's swings, cricket bats, &c.
 473 Clarke, H. A., 11 Clifton-terrace, Baillie-st., Hotham, Melbourne.—Major Clarke's grand military lawn game, called "Enfilade."
 474 King, H., 81 and 83A Elgin-st., Carlton.—Cricketing and football, and lawn tennis goods.
 475 Sherwin, J. W., 20 and 22 Wellington-st., Collingwood, Melbourne.—Case of cricket balls, colonial manufacture.
 476 Smith, J. M'G., 4 Margaret-st., Richmond, Melbourne.—Cricket bats, in raw and manufactured stages; wickets.

5, 7, & 11 Latrobe-st. W., Melb. Factory—Brunswick-st., Fitzroy.

VI.

Raw and Manufactured Processes and Products.

Class 41.—Products of the Cultivation of Forests and of the Trades appertaining thereto.

- 477 Barrum River Timber Land and General Trading Co. Ltd., Apollo Bay.—Native timbers, dressed and polished.
- 478 Ballarat Water Commissioners, Ballarat, Victoria.—Sections of exotic timber grown in Victoria.
- 479 Connor, J. M. B., Ryrie-st., East Geelong.—Model of ship, and collections of specimens of colonial timber.
- 480 Griffiths, J., Narioka, Echuca, Victoria.—Woods in natural and polished state.
- 481 Guilfoyle, W. R., F.L.S., Botanic Gardens, Melbourne.—Collection of exotic timbers, Victorian fibres, oils, &c.
- 482 Harrison & Co., 24 Little Collins-st. East, Melbourne.—Corks, bungs, and sundries connected with the aerated water trade.
- 483 Melbourne Harbour Trust, Melbourne.—Eucalyptus timber and schedules.
- 484 Martin, D., Secretary for Agriculture, Melb.—Specimens of bark, palings, and shingles.
- 485 Middleton, D., Toora Post Office, South Gippsland, Victoria.—Collection of South Gippsland timber.
- 486 Mueller, Baron F. von, Government Botanist, Melbourne.—Botanical specimens, &c.
- 487 New Zealand Loan and Mercantile Agency Co. Ltd., Collins-st., Melb.—Bark.
- 488 Perry, J., 187 Russell-st., Melbourne, Victoria.—Steam-bent timber and turnery.
- 489 Public Library, Melbourne.—Timber.
- 490 Richardson, S., & Son, Brodribb River, Gippsland.—Timber.
- 491 Traeger, W., 225 Swanston-st., Melbourne.—Draught-table, consisting of 230 specimens of Australian wood.
- 492 Wiegman, A., 35 Post Office-place, Melbourne.—Sample of Victorian willow.
- 493 Wightman & Son, Barry's Reef, Blackwood, Victoria.—Wheelwright, building, bending, and polished timber.

Class 42.—Products of Hunting, Shooting, Fishing, and Spontaneous Products.—Machines and Instruments connected therewith.

- 494 Austin, H., 49 High-st., St. Kilda, Melbourne.—Raw and dressed ostrich feathers.
- 495 Campbell, A. J., H.M. Customs, Melbourne.—Australian birds' eggs, classified.
- 496 Coles, A., 220 Elizabeth-st., Melbourne.—Stuffed birds, animals, and fishes.
- 497 French, C., F.L.S., Botanical Museum, Melbourne.—Collection of Australian insects.
- 498 Gooderidge, F. W., 46 Collins-st. West, Melbourne.—Victorian birds' eggs.
- 499 Hatswell, G. H., Little Page-t., off Foote-st., South Melbourne.—Large canary aviary.
- 500 Hill, Sarah, 58 Lygon-st., Carlton, Melbourne.—Ostrich feathers, dressed and dyed.
- 501 Kenny, E. E., 3 Park Hill Terrace, Hoddle-st., E. Melb.—16 cases stuffed birds; case—snake setup.

502 Lawrence, W., Royal Arcade, Melbourne.—Ostrich feathers, manufactured and dyed.

- 503 Officer, C. M., & Co., care of Dalgety and Co., Bourke-st., Melbourne.—Ostrich feathers.
- 504 Oliver, W. H., Fryerstown, near Castlemaine.—Silkworms and their production, in all stages.
- 505 Parker & Co., 54 Moorabool-st., Geelong.—Rabbit exterminator.
- 506 Petty, Marion, 61 Rob Roy-buildings, Brunswick-st., Fitzroy, Melbourne.—Ostrich feathers.
- 507 St. John, F., 114 Cubitt-st., Richmond, Melbourne.—Collections of stuffed birds and animals.

Class 43.—Agricultural Products not used for Food.

- 508 Alexander, M. A., 58 Elizabeth-st., Melb.—Cut tobaccoes and cigarettes.
- 509 Australian Mortgage & Agency Co. Ltd., Collins-st. W., Melbourne.—Trophy of wool.
- 510 Blashki Bros., 120 Bourke-st. E., Melbourne.—Cigars, tobacco-leaf, cigarettes.
- 511 Bosisto, J., & Co., Bridge-st., Richmond, Melbourne.—Fsparto grass (*stipe tenacissima*), for paper making.
- 512 Cameron, W., Bros. & Co., 97 Bourke-st., Melbourne.—Manufactured tobacco.
- 513 Dudgeon & Arnall Ltd., 125, 127, 129 Lonsdale-st. W., Melbourne.—Tobacco leaf and cut tobaccoes.
- 514 Goldsbrough & Co. Ltd., Bourke-st., Melbourne.—Trophy of wool.
- 515 Government Botanist.—Models, representing the silk industry, prepared by Mrs. Timbrell.
- 516 Heinecke & Fox, corner Spencer and Little Lonsdale Sts., Melbourne.—Tobacco, cigars, cigarettes, and snuff.
- 517 Jacobs, Hart & Co., 72 Queen-st., Melb.—Tobacco, cigars, and cigarettes.
- 518 Moss, White & Co., 61 and 63 Queen-st., Melbourne.—Cut tobacco, cigars, and snuff.
- 519 New Zealand Loan & Mercantile Agency Co. Ltd., Collins-st. W., Melb.—Wool.
- 520 Saqui, J. J., Bourke-st., Melbourne.—Cigars.
- 521 Sniders & Abrahams, 28 Lonsdale-st. E., Melbourne.—Cigars, made from imported tobacco.

Class 44.—Chemical and Pharmaceutical Products.

- 522 Alum Co. Ltd., N.S.W.—Exhibit.
- 523 Australian Lithofracteur Co. Ltd., 31 Little Collins-st. East, Melbourne.—Chemicals, acids, alkalis, &c.
- 524 Australian Asbestos Manufacturing Co. Ltd., 11 Flinders-lane, Melb.—Asbestos materials for household, structural, &c., purposes.
- 525 Ball, W., 61 Bourke-st. East, Melbourne.—Chemical and pharmaceutical articles.
- 526 Bang, L., 104 Bourke-st. E., Melbourne.—Banger-asine soaps for removing stains.
- 527 Blogg, J., & Co. Ltd., City-road, South Melbourne.—Drysalteries and chemicals.
- 528 Bosisto, J., & Co., Bridge-road, Richmond, Melbourne.—Eucalyptus preparations, essential oils, chemicals; indigenous gums, resins, barks, &c.

G. F. Pickles & Sons, Carriage Builders,

VICTORIAN EXHIBITS.

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- 529 Bowen, W., & Co.,** 45 Collins-st. W., Melbourne.—Medicines.
- 530 Brooks, Robinson & Co.,** 39 Elizabeth-st., Melbourne.—Display of oils, paints, and colours for painters, decorators, &c.
- 531 Carrighan & Simpson,** 77 Elizabeth-st. North, Melbourne.—Pills.
- 532 Church, A., & Co.,** 115 Elizabeth-st., Melbourne.—Church's washing solution.
- 533 Cook, S., & Co.,** Flinders-lane, Melbourne.—Printing inks, &c.
- 534 Cromarty, J. H., & Co.,** Elizabeth-st., Melbourne.—Dissinfectant powder.
- 535 Cuming, Smith & Co.,** 45 William-st., Melbourne.—Collection of artificial fertilisers.
- 536 Eckensley, J.,** St. Arnaud.—Chemical products.
- 537 Ewing, T. A., & Co.,** 119 Brunswick-st., Fitzroy, Melbourne.—Marking ink.
- 538 Felton, Grinwade & Co.,** 38 Flinders-lane W., Melbourne.—Chemical and pharmaceutical products.
- 539 Fitts, A., Kensington Manufacturing Co.,** Saltwater River, Kensington.—Oils—neatsfoot, trotter, lard ; horse and fleshing manures.
- 540 Fisher, A. H.,** Barnard-st., Sandhurst.—Furniture cream, plate polish.
- 541 Francis, H., & Co.,** 31 Bourke-st. E.—Pharmaceutical preparations and perfumes.
- 542 Graham, G. L.,** 145 Graham-st., Port Melbourne.—Dressing for leather, writing inks, disinfectants.
- 543 Grist, H. G., & Son,** Flinders-lane, Melbourne.—Chemists' sundries.
- 544 Hamilton, G. W. N.,** 13 Brunswick-st., North Fitzroy, Melbourne.—Patent soaps.
- 545 Hogan Bros.,** Liverpool-st., North Fitzroy, Melbourne.—Fire-kindlers, Brunswick black, lime juice.
- 546 Hutchens, J.,** 232 Lygon-st., Carlton, Melbourne.—Ghuten bread:
A WHOLEWHEAT BREAD, manufactured as a dietetic. Invaluable, frequently indispensable, and superior to any other substitute for ordinary wheaten bread, in cases of DIABETES, CONSUMPTION, INDIGESTION, CORPULLENCE, and GENERAL DISEASES.
- 547 Hunt, Hutchinson,** 90 Flinders-lane, Melbourne.—Food preservatives, dairy preparations.
- 548 Irwin, W. A.,** cor. of Lygon and Scotchmer Sts., Carlton.—Irwin's condition food for cattle.
- 549 Jacobsen, J., & Co.,** 125a William-st., Melbourne.—Bootgloss, glossene, florina, Hamengloss.
- 550 Johnston, Dunster & Co. Ltd.,** 18 Flinders-st. W., Melbourne.—Square blues, blacking, essences, vinegar, &c.
- 551 Johnson, N.,** Junction, St. Kilda, Melbourne.—Chemicals and drugs.
- 552 Kensington Manufacturing Co.,** Saltwater River, Kensington.—Bonedust manures.

- 553 Kitchen, J. & Sons, Apollo Co. Ltd.,** 28 Flinders-lane W., Melbourne.—Stearine candles, oleo-margarine, butterine, oils, grease.

J. KITCHEN & SONS and APOLLO COMPANY LIMITED,

Manufacturers of STEARINE CANDLES, HOUSEHOLD SOAPS, TOILET SOAPS, SODA CRYSTALS, GLYCERINE, AND OIL REFINERS, AND TALLOW BROKERS.

Directors—Hon. Thos. Loader, Messrs. Chas. Campbell, Theo. Kitchen. Managing Directors—John A. Kitchen, John H. Kitchen, Secretary—J. P. Cameron. Head Office—28 Flinders-lane West, Melbourne. Factory—Inglis-street, Port Melbourne. W. J. Kitchen, manager.

Branches:—New South Wales: Sydney Soap and Candle Company Limited. Office—Clarence-street, Sydney. Works—Newcastle. Mr. A. W. Gilles, managing director. Queensland Office—Eagle-street, Brisbane. Factory—Bulimba, near Brisbane. Mr. J. C. Donaldson, manager. New Zealand Office—Lambton Quay, Wellington. Factories—New Town, Wellington, and Burnside, Dunedin. Mr. R. Davies, manager.

- 554 Kingsland & Sons, G.,** William-st., Melbourne.—Spirituous ætheris, nitrosi, ammonica aromaticus.
- 555 Kruse, J.,** 105 Collins-st. East, Melbourne.—Mineral waters, aerated waters, chemicals, etc.
- 556 Kyle, J.,** Coburg.—Disinfectant and patent manure.
- 557 Lewis & Whitty,** 28a Flinders-lane W., Melbourne.—Blue, seiditz and washing powders, borax, extract of soap, soap, and soda crystals.
- 558 Lindegaard, W.,** Ford-st., Beechworth, Victoria.—Danish healing plaster.
- 559 Locke, C. T.,** Latrobe-terrace, Geelong.—Adam's eye lotion.
- 560 Markwald & Co.,** 15 Flinders-lane West, Melbourne.—Eye salve.
- 561 Michaelis, Hallenstein & Co.,** 23 Little Docker-st., Richmond, Melbourne.—Polish powder, paste, vegetable blacking, ink.
- 562 Morris, Jane, Male-st., Middle Brighton.—** Imperial eye ointment.
- 563 Norris, T. W., & Co.,** 72 Chapel-st., Prahran, Melbourne.—Spice for cattle, &c.
- 564 Potts, H. W.,** 69 Bourke-st. West, Melbourne.—Irvine's physical balls ; Irvine's distemper balls for dogs.
- 565 Price, Bowring & Co.,** 137 Swanston-st., Melbourne.—Starch and its bi-products.
- 566 Quinn, W.,** 253 Chapel-st., Windsor, Melbourne.—Manufacturing druggists' goods.
- 567 Reeve, A.,** Ascot Vale.—Aromatic rose dentifrice.
- 568 Rice & Son,** Inglis-st., North Port Melb.—Dentifrice, a preparation for the teeth.
- 569 Ritchie, Mansfield & Co.,** James-st., Collingwood, Melbourne.—Chemical & pharmaceutical products.
- 570 Rosenthal, Aaronson & Co.,** 15 Little Collins-st., Melbourne.—Baking powder, balsams, lotions, &c.
- 571 Rowley, Wm.,** 10 Bourke-st. East, Melbourne.—Chemicals. Druggist's sundries.
- 572 Shaw, A. H., & Co.,** Palmerston-st., Carlton.—Patent damp-resisting and anti-fouling paint.
- 573 Simpson, J. J.,** 384 Brunswick-st., Fitzroy, Melbourne.—Chemical erasive soap, glue, cement.
- 574 Slater, W. H., & Son,** Blackburn.—Marking ink and essential oils.
- 575 Somerville, J.,** Brunswick-st., North Fitzroy, Melbourne.—Baking powder, blue, blacking, knife polish, &c.

5, 7, & 11 Latrobe-st. W., Melb. Factory—Brunswick-st., Fitzroy.

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MELBOURNE CENTENNIAL INTERNATIONAL EXHIBITION.

Business Waggons and Vehicles of all Styles to Order.

- 576 Stewart & Dodsworth, Wangaratta.—Baking powders, &c.
577 Stiles, H., & Son, Nicholson-st., North Fitzroy, Melbourne.—Pharmaceutical preparations.
578 Thomas, J. T., & Co., Somerset-place, Melbourne.—Carbolised sheep-dipping composition.
579 The Scrub Exterminator Manufacturing Co. Ltd., 30 King-st., Melb.—Scrub Exterminator.
580 Tilley, A., 3 Surrey Yard, South Yarra, Melbourne.—Toilet soaps.
581 Upton, W., and Son, Geelong.—Soap, candles, brass polish, &c.
582 Victoria Soap & Candle Co., Marnock Vale, Geelong.—Magic soap, sheep dip.
583 Victoria Varnish Co. Ltd., Moray-st., South Melbourne.—Varnishes, japans, oils, guns, and resins.
584 Warner & Co., H. H., 147 Little Lonsdale-st., West, Melbourne.—Warner's safe cure remedies, etc.
585 Watts, J. A., Wilson-st., Horsham.—Domestic and cattle medicines.
586 Williams, J. W., 52 Hawke-st., West Melbourne.—Lotion and embrocation.
587 Winn & Langley, Hansen's Buildings, Collins-st., Melbourne.—Hair washes, dyes.

- Class 46.—Leather and Skins.
588 Anderson, A., Sturt-st., Ballarat.—Leather and residual products.
589 Clark, S. R., 7 Flinders-st. E., Melbourne.—Foreign and native skins and furs.
590 Gill & Boston, Bermondsey Tannery, Richmond, Melbourne.—Sides of leather.
591 Green, J. R. H., 194 & 196 Gertrude-st., Fitzroy, Melbourne.—Fur goods.
592 Kennon & Sons, River-st., Richmond, Melbourne.—Whipthongs, kangaroo laces, and other leather.
593 Lloyd Bros. & Maginnis, 24 King-st., Melbourne.—Tanned and curried leather.
594 Munday, J., 12 Moorabool-st., Geelong.—Leather belting, laces, mill requirements.
595 Nettleberg, M., 175 Collins-st., Melbourne.—Foreign and Australian furs, colonial tanned and manufactured.
596 Paris & London Fur Co., 111A Elizabeth-st., Melbourne.—Furs and taxidermy.
597 Rich, E., Miller-st., North Fitzroy, Melbourne.—Dressed leather.
598 Steel, J. C., Kensington Tannery, North Melbourne.—Leather.
599 Whittell, G. M., & Co., Beehive Chambers, Elizabeth-st., Melbourne.—Sheepskin and angora rugs and mats.

VII.

Machinery—Apparatus and Processes used in the Mechanical Industries.

- Class 47.—Agricultural Implements and Processes used in the Cultivation of Fields and Forests.
600 Abraham, J., Little Bridge-st., Ballarat.—Patent pumps and water lifts.
601 Alston, J., Victoria Storage, Raglan-parade, Warrnambool, Victoria.—Patent trough, for horses, cattle, sheep, &c.
602 Balaam, J. J., Russell-st., Sandhurst, Victoria.—Stump-jumping scarifier.
603 Beard & Sisson, Natimuk, Victoria.—Stripper and furrow plough.
604 Bonnetti, G., 130 Spring-st., Melbourne.—Wine casks, dairy work, &c.
605 Booth, J., Railway Station, Post-office, Wallan Wallan, Victoria.—Seed harrows, with steel tyres and improved drag-bars.
606 Brierly, W., Eagle Works, City-road, South Melbourne.—Chaffcutter, horseworks, &c.
607 Buncle, J., Parkside Iron Works, North Melbourne.—Buncle's well-known agricultural machinery, tobacco-cutting machines, saw benches, &c.
608 Clark, J., High-st., Maryborough.—Single, double, and three-furrow ploughs and cultivators.
609 Davies & Baird, Royal Park Foundry, Brunswick-road, Brunswick.—Cast chilled ploughshares, wheels, general castings.
610 Edwards, D., 274 Elizabeth-st., Melbourne.—Patent land cultivators, ploughs.
611 Flett & Son, Yarra Cooperage, Falls Bridge, Melbourne.—Ale and wine casks, &c.
612 Furphy, J., Shepparton, Victoria.—Grain-stripping machine, furrow plough, swingletrees.

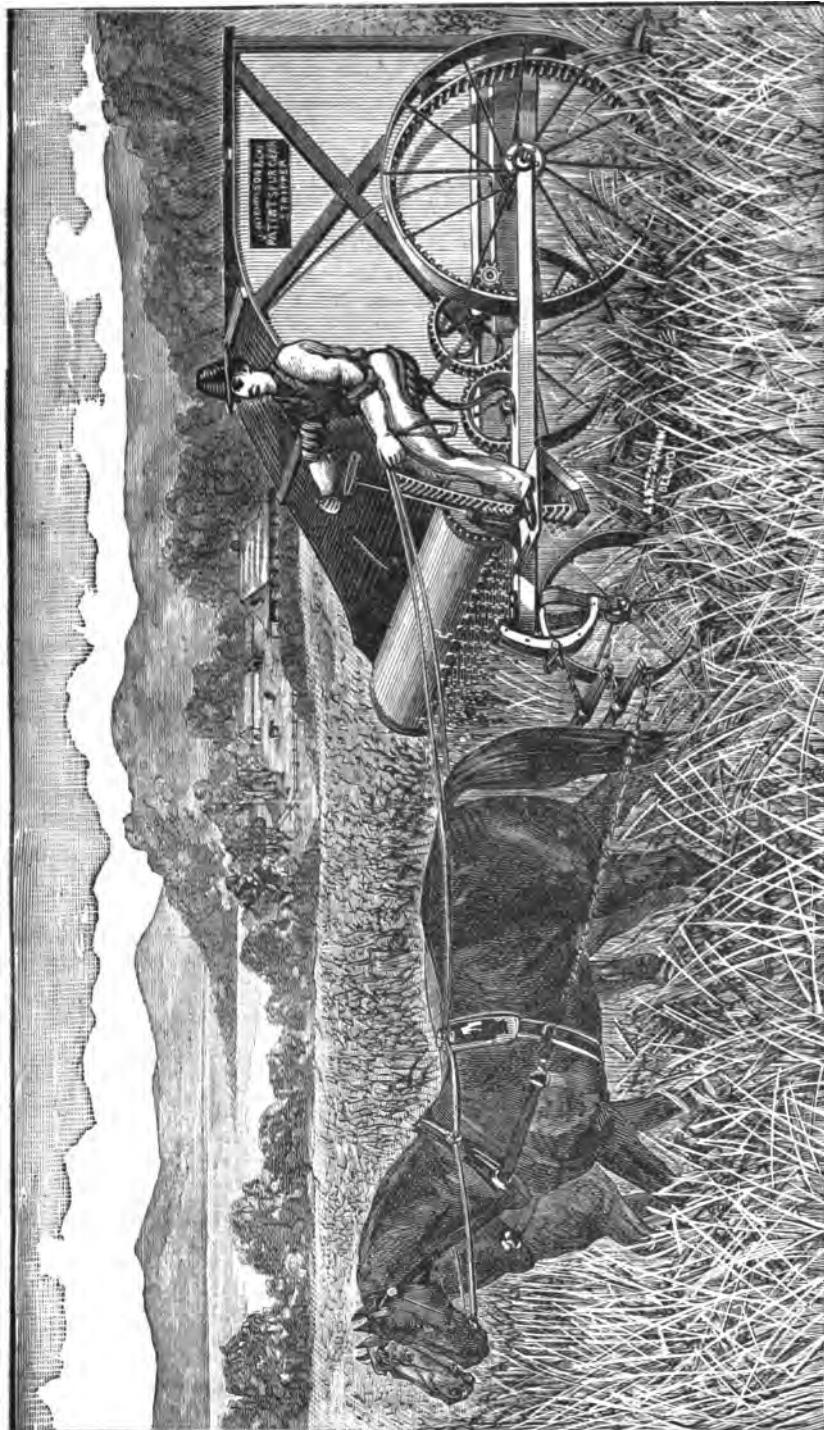
- 613 Gow & M'Farlane, 9 Montague-st., South Melbourne.—Double-furrow plough.
614 Gray, Waring & Co., Princes' Bridge, Melbourne.—Cooperage work.
615 Hart, J. C., Mackay-st., Rochester, Victoria.—Bow wagon and hay cart.
616 Hocking, A., Horsham.—Ploughs.
617 Howden & Son, Flemington-road, Melbourne.—Harrows.
618 Johnston & Miller Bros., Warracknabeal.—Agricultural implements.
619 Kelly & Preston, Creswick-road, Ballarat.—Single, double, and treble ploughs.
620 Lennon, H., North Melbourne.—Agricultural implements and machinery.
621 May & Millar, Wimmera Foundry, Horsham, Victoria.—Stripping and winnowing machine, stump-jumping ploughs, &c.
622 M'Lean Bros. & Rigg, Elizabeth-st., Melbourne.—Agricultural implements.
623 Munro, G., Alfredton, Ballarat, Victoria.—Stripping, winnowing, reaping, mowing machines, &c.
624 Musgrave, J., Greenvale, Victoria.—Agricultural machines.
625 M'Calman, Garde & Co., corner of Blackwood and Bedford Sts., Hotham, Melbourne.—Agricultural implements.
626 M'Kay Bros., Williams-st., Sandhurst, Victoria.—Harvesting machine to strip, thresh, clean, in one.
627 Nicholson, J., and Co., Leicester-st. Carlton.—Reapers and mowers, &c.; stripping machines, &c. (see illustration, page 61).
628 O'Sullivan, P., G. T. Morris & Sons, Brown's Plains, Victoria.—Oak casks for wine.

5, 7, & 11 Latrobe-st. W., Melb. Factory—Brunswick-st., Fitzroy.

(See Catalogue, page 60.)

MELBOURNE, J., & CO., Latrobe-st., Melbourne

Largest Builders of High-class Carriages and Buggies in Australia.

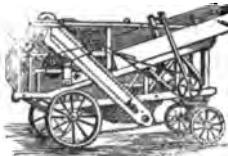


5, 7, & 11 Latrobe-st. W., Melb. Factory—Brunswick-st., Fitzroy.

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629 Robinson, T., and Co., Melbourne.—Stripping and winnowing machines, &c.; also implements for vine culture.

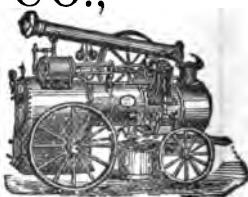
T. ROBINSON & CO.,



AGRICULTURAL AND PASTORAL
IMPLEMENT AND MACHINERY

MANUFACTURERS & IMPORTERS,

243 TO 247 ELIZABETH-ST.,



MANUFACTURERS.

Importers of the HORNSBY and M'LAREN PORTABLE ENGINES, all sizes; and of M'LAREN'S TRACTION ENGINES, now so popular and useful on the Station or Farm, or for Road-making or Earth-excavating.

T. ROBINSON & Co. are the only Colonial Manufacturers of STEAM THRESHING MACHINES, and have the sole right to manufacture T. QUINLIVAN'S BANDCUTTER and SELF FEEDER.

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T. ROBINSON & Co. are Sole Agents for HOWARD'S ROYAL PRIZE SHEAF-BINDER.
Every class of Implement or Machine for the Farm made or kept in stock.

CATALOGUES ON APPLICATION.

MELBOURNE.

IMPORTERS.

630 Robinson and Sons, A'Beckett-st.—Patent travelling box and wool press, one patent automatic wheel and earth scoop.

649 Gorman, W., High-st., Carlton, Melbourne.—New and improved churns.

631 Robison Bros. and Co., Melbourne.—Irrigation machinery, pumps, &c.

650 Harratt, W. H., Hotham.—Cheese press.

632 Schmitt, F., Denmark-st., Kew, Melbourne.—Lawn mower.

651 Kent, W., & Co., 103 Little Collins-st. E., Melbourne.—Mills for grinding coffee, sugar, &c.; hand, flour, and grist mills.

633 Simpson & Son, Warracknabeal.—Ploughs, &c.

652 Lawrence, A., & Co., 130 Collins-st. West, Melbourne.—Brewers' and aerated-water makers' sundries and appliances.

634 Smith, R., 29 Bourke-st., Carlton, Melbourne.—Improved grain-cleaning machine.

653 Lloyd, J. M., 24 Eville-place, Albert Park, Melbourne.—Hives, honey and wax extractors, bee smokers.

635 Smith, G. G., & Sons, All Saints' Vineyard, Wangunyah.—Casks manufactured from Australian timber.

654 Lowe, J. E., 23 Darling-st., South Yarra.—Undershot water wheel.

636 Spawne, A. F., Franklin-st. W., Melbourne.—Machines for evaporating meat, fruit, or vegetables.

655 Melbourne Steam Biscuit Factory, Bourke-st. W. (J. H. Walker and Co.).—Process of manufacture of biscuits.

637 Webber & Sons, Geelong Cooperage, Geelong.—Oak wine casks and vats.

656 Metters Bros., Post Office-place, Melbourne.—Improved ovens.

Class 48.—Apparatus and Processes used in Agricultural Works, and in Works for the Preparation of Food, Irrigation of Land, &c.

657 Mourant, J. J., 77 Oxford-st., Collingwood, Melbourne.—Wood taps.

638 Abraham, J., Little Bridge-st., Ballarat.—Centrifugal pump and hydraulic ram.

658 Munro, D., Queen-st.—Pumps, engines, &c.

639 Ashton, H. M., 27 Courtney-st., North Melbourne.—Silent meat-cutting machine.

659 M'Comas and Co., Collins-st. W.—Water lifts, windmills, and hand, &c.

640 Bey, P., Churn Factory, Talbot, Victoria.—Double-motion churns.

660 M'Donald, M., and Co., Madeline-st., Carlton.—Machinery for manufacturing aerated waters.

641 Bult, G., High-st., Echuca, Victoria.—Churns and other dairy utensils.

661 M'Pherson, W., cor. of Pickle and Henderson Sts., South Melb.—Ice chests and refrigerators.

642 Cherry, E., and Sons, Gisborne.—Butter-making machine, churning, and butter-workers.

662 Parker, J., Elsa Iron Works, Geelong.—New patent stove oven.

643 Danks, J., and Son, Bourke-st. West, Melbourne.—Pumps, &c.

663 Perry, H., Spencer-st.—Sausage machine.

644 Drainfield, Pike & Co., 139 Collins-st., Melbourne.—Patent butter-coolers.

664 Ramsay, R., 86 Bridge-st., Ballarat, Victoria.—Tin-lined cheese presses, heaters, drainers, vats.

645 Edwards, D., 274 Elizabeth-st., Melbourne.—Wrought iron irrigation pipes, new mode of conveying water through the irons.

665 Robertson, —, Argyle-st., Fitzroy.—Machinery for manufacture of confectionery.

646 Elfenheim, Tovey & Rickards, Trevoe House, Barkly-st. W., Brunswick, Melbourne.—Ice-making apparatus, churning, beehives, incubators.

666 Shackleton, J. B., Elgin-st., Carlton.—Machinery for manufacturing confectionery.

647 Flood, F. M., Lonsdale-st.—Irrigating water lifts, windmills, &c.

667 Shaw, A., & Co., 13 Little Collins-st., Melbourne.—Dairy utensils.

648 Fraser, A., 35 Gordon-place, Little Bourke-st., Melbourne.—Two grape-stripers which throw out stalks.

668 Spawne, A. F., Franklin-st., Melbourne.—Evaporators for evaporating vegetables, meats, fruits, etc.

649 Terry's West End Brewery.—Miniature brewing plant.

.5, 7, & 11 Latrobe-st. W., Melb. Factory—Brunswick-st., Fitzroy.

G. F. Pickles & Sons, Carriage Builders,

VICTORIAN EXHIBITS.

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Class 49.— Implements, Models, and Plans connected with the Irrigation of Land.

670 Alston, J., Victoria Forge, Raglan-parade, Warrnambool.—Section of irrigation flume, &c.

671 Gregory, H. P., & Co., Bourke-st. West, Melbourne.—Blake's direct-acting steam-boiler feed pumps.

672 Kaufmann, G., & Co., 17 King-st., Melbourne.—Artesian well drilling appliances, &c.

673 Morieson, J., Phoenix Forge, Liebig-st., Warrnambool.—Windmill stand and pump, watering trough.

Class 50.—Apparatus used in Chemistry, Pharmacy, and Tanning.

674 Gaunt, T., 14 Bourke-st., Melbourne.—Thermometer, hydrometer, &c.

675 Potts, H. W., 60 Bourke-st. West, Melbourne.—M'Lean's plaster-spreading machine.

676 Sutherland, J., Melbourne Soap Works, Elsternwick, Melbourne.—Stamping presses used in the manufacture of soap.

Class 51.—Machines and Apparatus in general.

677 Alcock, H. U., 136 Russell-st., Melbourne.—Jumbo travelling hoists.

678 Austral Otis Co., South Melbourne.—Various machinery, engines.

679 Barlow, R. & T., View Point, Sandhurst, Victoria.—Automatic door holder, for securely holding open doors, gates, windows, &c.

680 Berry, A., 142 Spencer-st., Melbourne.—Butchers' requisites—sausage machines, cutlery, &c.

681 Blanche, H. B., Bromby-st., South Yarra.—Improved machinery.

682 Braid, A., Wreckyn-st., North Melbourne.—Horse street-scraping machines.

683 Brewer, J. W. W., Raglan-st., Port Melbourne.—Generators for making soda-water gas, improved for bottling machine.

684 Brierley, W., Eagle Works, City-road, South Melbourne.—Mechanism for castings.

685 Brown and Blyth, Clifton-hill.—Various machinery.

698 Chaffey Bros., 78 Collins-st. W., Melbourne.—Centrifugal pumping plant for irrigation.

THE AUSTRALIAN IRRIGATION COLONIES.

CHAFFEY BROS. LIMITED.

THE Irrigation Colonies, Mildura and Renmark, are unsurpassed for the growth of oranges, lemons, raisins, prunes, figs, vines, olives, and all horticultural and agricultural products. An incomparable semi-tropic climate. Deep rich soils of various colours, with an abundance of pure water delivered on the land from the magnificent River Murray. Most desirable location for homes for the fruitgrower, farmer, invalid, and capitalist. Picturesque scenery. Rapid growth. Each allotment has a frontage to one of the streets or avenues. These lands are offered on liberal terms, and full inspection invited. Established by special Acts of Parliament, and regulated by Government. Pamphlets, maps, plans, and all information on application to any of the Company's offices.

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CHAFFEY BROS. LIMITED.

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686 Blakeley, W. H., 116 Russell-st., Melbourne.
—Saw-grinding machinery.



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Manufacturer and Importer of English and American Joiners' Tools, Saws, Files, Cutlery, &c., Emery Wheels, Grindstones, Leather and Rubber Belting, Les Fils de Peugeot Freres' Band Saws, Horse Clippers, Springs for Telegraphic Apparatus, Clocks, &c. Circular Saws re-toothed, ground, and reduced in thickness to any gauge or size required. Moulding Machine and Guillotine Knives ground. Grinding and Polishing Works. See Special Machinery in motion, Victorian Court.

687 Buchanan, D. & R., Yarra Bank, South Melbourne.—Hoisting engines and seamless fire-box.

688 Butt, J. T., Fitzroy Scale Factory, 96 Gertrude-st., Fitzroy.—Weighing apparatus.

689 Clough, E. L., Heath and Raglan Sts., North Port Melbourne.—Boiler composition.

690 Collie, T. G., William-st.—Machine for the manufacture of twisted wire and wooden lath spring mattress.

691 Coulsell, L. B., 32 Blackwood-st., North Melbourne.—Silent meat-cutting machines, brine pumps, &c.

692 Cuss, H. Berriman, The Exchange, Collins-st. W., Melbourne.—Patent safety valves for supplying the steam to the electric light engines.

G. F. Pickles & Sons, Carriage Builders,

64

MELBOURNE CENTENNIAL INTERNATIONAL EXHIBITION.

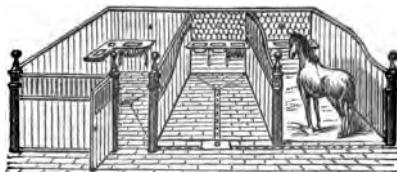
Phaetons, Victorias, and Pleasure Waggons.

- 694 Danks, J., & Sons, 42 Bourke-st., Melbourne.—Lead and pewter.
- 695 Disher, W. J.—Improved system of flushing and draining stables, &c.
- 696 Edgworth, R. B., 4 Kingston-terrace, Mary-st., Richmond.—Portable steam cleansing and washing machines.
- 697 Evans, T., 4 Bourke-st. W., Melbourne.—Canvas hoses, hydrants, couplings, &c.
- 698 Faull, E., & Co., 69 Elgin-st., Carlton, Melbourne.—Models of steam-engine and lubricator.
- 699 Foster, J. G., Latrobe-st. W.—One of Merry-weathers & Son's "Greenwich" steam fire-engines.
- 700 Gregory, H. P., & Co., 104 Bourke-st. West, Melbourne, and 17 Pitt-st., Sydney.—Mackenzie's patent continuous-feed sight-drop lubricators; Victorian lubricating compound, &c.
- 701 Hardley, G., 51 Elizabeth-st., North Melbourne.—Washing machines.
- 702 Harrower, R. A., Brunswick.—Model engine and boiler, with an improved valve motion, for working expansively so as to economise steam.
- 703 Hayden, R., Post Office, Seymour.—Self-acting rabbit trap.
- 704 Hoyte, C. J., Collins-st.—A new design engine.
- 705 Humble and Nicholson, Vulcan Foundry, Geelong.—Wool scouring machines, &c.
- 706 Hunter, J. C., Smith-st., Fitzroy.—Silent horizontal gas engines.
- 707 Kitchingman & Co., 270 Wellington-st., Collingwood, Melbourne.—Gasometers.
- 708 Langland's Foundry Co. Ltd., Hannast., South Melbourne.—Portable engines, steel crucibles, battery forgings.
- 709 Littington, J., Williamstown.—Patent pump invented by exhibitor.
- 710 Lowe, S., 187 Little Collins-st.—Steam washing machine in work, mangles and wringers.
- 711 Lowe, J. E., 23 Darling-st., South Yarra, Melbourne.—Water-pressure engine for swinging punkahs.
- 712 Magee, H. S. T., "Illillawa," Toorak-road, South Yarra, Melbourne.—Machine for testing materials and structures, hydraulic engine.
- 713 Mangsen & Co., Castlemaine Foundry, Castlemaine.—10-h.p. portable engine, horizontal high-pressure compound engine, 60 h.p.
- 714 Manson, W. F., 22 Florence-terrace, Elgin-st., Melbourne.—Improved washing machine.
- 715 Marsh, W., & Son, Bay-st., Port Melbourne.—Portable gas-making apparatus.
- 716 Merch, W. H., Lennox-st.—Merch's patent rotary engine.
- 717 Montgomery, R. A., 1 Salisbury-buildings, Bourke-street West.—Improved billiard scoring-boards.
- 718 Morton, —, Melbourne.—Messrs. Hornsby and Sons' engine (compound horizontal).
- 719 Mould, H. W., Clyde Forge, South Melbourne.—Rock drills, screw-jacks, forgings.
- 720 Mourant, J. J., 77 Oxford-st., Collingwood, Melbourne.—Lubricator.

- 721 Peirce, Alfred E., 80 Elizabeth-st. North, Melbourne, Patentee and Sole Manufacturer of Peirce's Patent Royal Prize Inventions to promote economy in the Field, Farm, Garden, Conservatory, Poultry and Kennel Yards, Stable, Dairy, Laundry, House, &c.



Fowl, Game, &c., Houses.



Sanitary Stable and Harness Room Fittings.



Dog Kennels, Piggeries, &c.

Iron Fencing, Gates, Tree Guards, Sheep Folds, Sheep Dips, Cattle Cribs, &c.; Pig, Sheep, Cattle, and Horse Troughs (over 20,000 sold), Piggeries, Cow-house Fittings, &c.; Tubular Wheelbarrows (over 25,000 sold), Water Barrows and Carts, Hose Reels, Pumps and Engines; Garden Seats, Tables, Canopies, Swings, Flower Vases, &c., Conservatories, Green Houses, Melon Frames, Hand Glasses, &c.; Fowl Houses, Hen Coops, Poultry Troughs, Fountains, Nests, &c.; Dog Kennels, Houses, Troughs, &c.; Stable, Stall, Loose Box, and Harness Room Fittings; Coach Houses, Corn Bins, Feed Shoots, Carriage Jacks, Sack Trucks, Weather Vanes, &c.; Milk Barrows and Carts, Churns, Cheese Presses, &c.; Soaking, Washing, Wringing, Starching, and Mangling Machines; Ironing Stoves, Portable Furnaces, Clothes Horses, Linen Presses, &c.; 4 and 6 step-Step Chairs (over 22,000 sold), Hand, Rail and Ladder Steps, Pole and Tubular Ladders, Wine Bins, Cask Stands, Grindstones, Boot Cleaners, Cinder Sifters, Dust Bins, Closet Barrows, &c., &c. As patronised by the world's Royalty, Nobility, Gentry, &c., and awarded the Royal, &c., Societies Medals.

Peirce's Additional New Inventions Exhibited, and General Illustrated List, Free.

- 722 Potter, J., Livingstone House, Canning-st., North Carlton, Melbourne.—Working model of gas meter fitted for testing.
- 723 Riley, W., Cunningham-st., South Yarra.—Vertical engine and boiler.
- 724 Sabelberg, J.—Machinery.
- 725 Stokes, T. J., 8 Little Collins-st., Melbourne.—Gold balance, in glass case.
- 726 Thompson & Co., Castlemaine.—Portable engines, pumps, and rock drills.
- 727 Tyrer, P., 425 King-st., Melbourne.—Patent spark arresters, steel wire brushes, cork extractors.

- 728 Vial, F., & Co., Macaulay-road, Kensington.—Leather work, belting, side arms, rubber leathers, &c.

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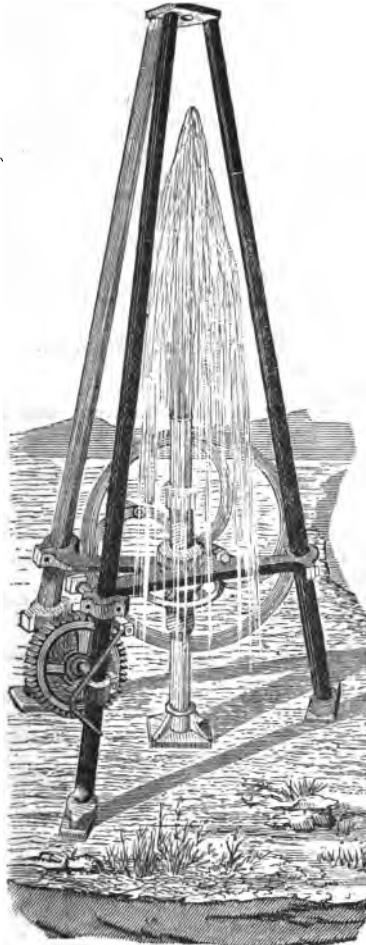
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- 729 Wright and Edwards, Lonsdale-st. W.—**
Wool-scouring machines, engines, and general machinery.



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SCOURER

SCOTT'S PATENT WOOL-SCOURING MACHINE

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EARTH SCOOP

CENTRIFUGAL PUMPS, ENGINES, BOILERS ;
all classes of MILL GEARING, SHAFTING,
PULLEYS, &c.; and all kinds of TANNERS'
and SQUATTERS' MACHINERY.

- 730 Walter & Echberg, 239 Swanston-st., Melb.
bourne.—**Washing machines and gymnastic apparatus.

- 731 Wannan, C. C., Standard Engineering Works, Melb.—**Shafting, pulleys, &c., showing different ways of running belting.

- 732 Willson, R. J. F., 541 Victoria-st., Collingwood, Melbourne.—**Washing machine.

- 733 Wilson, C., 201 Elizabeth-st., Melbourne.—**Tools for inserting eyelets, sewing palms, needles, brass and white metal sail thimbles.

- 734 Wotherspoon & Wilkinson, 63 Flinders-lane E., Melbourne.—**Street and road cleaner.

Class 52.—Machine Tools.

- 735 Dawbarn, W. H., & Son, 163 Little Collins-st. Eas^t, Melbourne.—**Corking and cutting machinery.

- 736 Drancefield, Pike & Co., 139 Collins-st., Melbourne.—**Self-feeding sheep brand and wire strainers.

- 737 Drayton, E. & W., Moore-st., Footscray, Melbourne.—**Machine for screwing bolts and nuts, coke-crushing machine, taps, dies, bolts, and nuts.

- 738 Gilmour, M., Wreckyn-st., North Melbourne.—**Hammers, axes, &c.

- 739 Langland's Foundry Co. Ltd., Hannast., South Melbourne.—**Engineers' tools.

- 740 Letham, J., Victoria-st., Carlton, Melbourne.**—Masons' tools.

- 741 Montgomery, R., & Co., 40 Little Collins-st., Melbourne.—**Cork-cutting machinery, aerated water makers' and brewers' sundries.

- 742 Mourant, J. T., 77 Great Oxford-st.—**Cork-cutting machines.

- 743 McLean Bros. & Rigg, 69 Elizabeth-st., Melbourne.—**Sheep brands, wire strainers.

- 744 Porte, J., & Sons, 152 Little Lonsdale-st. E., Melbourne.—**Steam bellows, portable forges, washboards.

- 745 Roeszler, C. G., 49 Little Collins-st. E., Melbourne.—**Tools for bookbinders, blocks for soap-makers, brands, &c.

- 746 Thirkettle, W. J., Kyneton, Victoria.—**Machine for drawing screws out of galvanised iron.

- 747 Walker, J., Stead-st., South Melbourne.—**Fancy hammers and saws, tools for domestic purposes.

Class 53.—Apparatus and Processes used in Spinning and Rope Making.

- 748 Clark, A., Richardson-st., North Carlton, Melbourne.—**Sample of wire-rope work, splicing, &c.

Class 54.—Apparatus and Processes used in Weaving.

- 749 Gaunt, E. and W., Alfred Woollen Mills, Williamstown.—**Machine for combing, top-making, weaving, &c., &c.

- 750 Hartshorn, L., Collins-st., Melbourne.—**Weaving machine.

- 751 Macintosh, H., Little Collins-st. E., Melb.—**Machinery for manufacture of wire gauze.

- 752 Robertson & Co., 290 Church-st., Richmond, Melbourne.—**Knitting machines and work done.

5, 7, & 11 Latrobe-st. W., Melb. Factory—Brunswick-st., Fitzroy.

VOL. I.

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Largest Builders of High-class Carriages and Buggies in Australia.

G. F. Pickles & Sons, Carriage Builders,

Class 55.—Apparatus and Processes for Sewing and for Making up Clothing.

753 Lincoln, Stuart & Co., 109 Flinders-lane E., Melbourne.—Apparatus for cutting, sewing, and making up clothing.

754 Webster, Acme Shirt Factory, Flinders-lane East.—Machinery showing process of shirt manufacture from first to last.

755 Wilson, H., Flemington-road, North Melbourne.—Boot and shoe machinery, iron lasts, etc.

Class 56.—Apparatus and Processes in the Manufacture of Furniture and Objects for Dwellings.

756 Cohen Bros. and Co., Lonsdale-st.—Machinery for turnery and jig work, and for manufacturing furniture.

757 Deslands, C. A., Leicester-st., Carlton.—Machinery for turning and moulding wood.

758 Grigor, Mrs. Ruth, 42 Lower-flat, Eastern Market, Melbourne.—Fretwork machines and patterns.

759 Jackson, A., corner Rae and Miller Sts., N. Fitzroy, Melbourne.—Jackson's patent fret sawing-machine, fret saws.

760 Lockington, G., Fitzgibbon-st., Parkville, Melbourne.—Shaping and moulding machine for woodworkers.

761 Moore, J., South Melbourne.—Wood-working machinery.

762 Murphy, E., City-road, South Melbourne.—Ventilators, centre flowers, trusses, brackets, etc.; garden fountain in cement, etc.

763 Rojo, C. F., Franklin-st., North Melbourne.—Lathes for wood turning and shaping.

764 Tillier, A. J., Little Collins-st. E.—Machinery for turning and shaping wood.

Class 57.—Apparatus and Processes used in Paper Making, Dyeing, and Printing.

765 Arnall & Jackson, 44 Collins-st. West, Melbourne.—Autographic machines—"The Lithogram."

766 Barwon Paper Mill Co., Geelong.—Reel of newspaper, 3 miles long, and samples paper.

767 Blake, W. C., Forest Hill, South Yarra, Melbourne.—Models of machinery used in paper staining, printing table and apparatus, including blocks.

768 Callander, T., 126 Flinders-lane E., Melbourne.—Brass rules, circles, ovals, galleyes, &c., used in printing.

769 Craven & Wotherspoon, 47 Queen-st., Melbourne.—Improved type setting, distributing, and blocking machines.

770 Harratt, W. H., Hotham.—Copying press.

771 M'Lean, A., King-st.—Three gas engines.

772 Sards and M'Dougall, Collins-st. West.—Lithographic printing machinery.

773 Thompson, W., Geelong.—Electrotypes, &c.

774 Troedel, C., & Co., 43 Collins-st. East, Melbourne.—Lithographic printing machine at work.

775 Wimble & Co., Little Collins-st. E., Melbourne.—Machine for printing inks.

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Printers' Furnishers,

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70 Little Collins-street East, Melbourne.
87 Clarence-street, Sydney.

27a Farringdon-street, London, E.C.

Varnish Works: Yarraville.

Class 58.—Machines, Instruments, and Processes used in various Works.

776 Altmann, E. A., 80 Elizabeth-st., Melbourne.—Medal press at work.

777 Cadby, P. H., Little Collins-st.—Machinery for manufacture of jewellery in all its branches.

778 Chabert and Hall, Bunting-st., Richmond.—Machinery for the manufacture of hats.

779 Dalglish & Thompson, 20 Collins-st. W., Melbourne.—Crystal pump, adapted for drawing beer, milk, &c.

780 Floyd, Green and Co., Richmond.—Manufactory of flint glass.

781 Goesche, M. A., Drummond-st., Carlton.—Electric sheep-shearing machine (patent).

782 Grigor, Ruth, Smith-st., Collingwood.—Wood-turning lathe and scroll saw.

783 Harrison, T. S., & Co., 24 Little Collins-st. E., Melb.—Cork-cutting machines, hand power; corking, capsuling machines; variety of machines.

784 Langlands, Yarra-bank.—Gas-engine, tools.

785 Lockington, G., Fitzgibbon-st., Parkville.—Shaping and moulding machine for woodwork.

786 Lugton, A., Little Lonsdale-st.—Brine pumps, sausage machine, stone-polishing machinery.

787 Stokes and Martin, Little Collins-st.—Process of manufactured stamped medals; silver-plated and nickel-plated medals.

788 Tregellas, J. H., Lower Huntly, Sandhurst.—Machines for winding silk.

Class 59.—Carriages and Wheelwrights' Work.

789 Alston, G., Bulla.—Carriages.

790 Australian Wheel Co., Nicholson-st., North Carlton.—Vehicles.

791 Auburn Carriage Co., Burwood-road, Hawthorn.—Carriages.

792 Bassett, H., & Co., Elizabeth-st., Melbourne.—Bicycles.

793 Brown & Williams, Kyneton.—Buggies, etc.

G. F. Pickles & Sons, Carriage Builders,

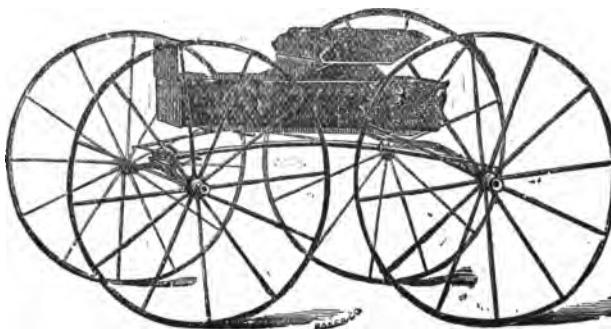
VICTORIAN EXHIBITS.

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| 794 Burton & Knox , Burwood-road, Hawthorn.—Buggies, etc. | 796 Clapham, Clapham & Smith , Punt-road, Windsor.—Carriages, etc. |
| 795 Burton & Sons , J. H., 63 Latrobe-st. East, Melbourne.—Carriages, etc. | 797 Cutter, L. E. , Chancery-lane, Ballarat.—Buggies. |
| 798 Craine, T. , Princes' Bridge, City-road, Melbourne.—Exhibit. | |

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| 799 Damyon Bros. , Carlyle-st., St. Kilda.—Buggies. | 815 Jackson, A. , corner Rae and Miller sts., North Fitzroy, Melbourne.—Roller skates. |
| 800 Dowell, W. & A. , Argyle-st., Fitzroy.—Carriage work. | 816 Leach, W. , Creswick.—Buggy. |
| 801 Drancefield, Pike & Co. , 139 Collins-st. West, Melbourne.—Combination perambulator. | 817 Legg, N. , Kew.—Carriages. |
| 802 Duncan & Fraser , Ballarat.—Tram car. | 818 Melbourne Tramway & Omnibus Co. Ltd. , Melbourne.—Tramcar. |
| 803 Evans, W. , 24 Grant-st., South Melbourne.—Springs, etc. | 819 Muller, D. J. , Chiltern.—Waggon wheels. |
| 804 Ewing Bros. , Franklin-st. West, Melbourne.—Light canoe landaus, double-seated, square, and circle fronted broughams, phæstons, &c. | 820 Oak, S., & Son , Seymour.—Wheel fittings. |
| 805 Gardiner, J. H. , Leveson-st., North Melbourne.—Perambulators. | 821 Owen, H. , Berry-st., Richmond.—Perambulator. |
| 806 Galland, J. , Glenferrie-road, Hawthorn.—Victoria phæton, dog-cart phæton. | 822 Phoenix Carriage Co. , Brunswick-st., Fitzroy.—Carriages. |
| 807 Greed, A. , Gray-st., Hamilton.—Single-seated hooded imitation Abbott, and double-seated reversible bracket-front waggon. | 823 Pickles, G. F., & Sons , Latrobe-st. West, Melbourne.—Exhibit. |
| 808 Harratt, W. H. , Hotham.—Accessories for carriage builders, &c.; copying press. | 824 Remfry, F. , Bulleen-road, Kew.—Vehicles. |
| 809 Harvie & Sons, J. , Bridge-road, Richmond.—Phæton. | 825 Ripkey & Brotzel , City-road, South Melbourne.—Buggies. |
| 810 Healey, J., & Co. , 74 Chapel-st., South Yarra.—Carriages. | 826 Robinson & Morse , Fairy-st., Warrnambool.—Buggy. |
| 811 Helmsinde Carriage Factory Co. Ltd. , Margaret-st., Footscray.—Buggies. | 827 Ross, J. A. , Sheepwash-rd., Sandhurst.—Model of dray. |
| 812 Hudson Bros. , Elizabeth-st., Melbourne.—Bicycles, tricycles, &c. | 828 Royall, J., & Co. , Leicester-st., Carlton.—Axles, presses and screws. |
| 813 Hudspeth, W. , Normanby-road, South Melbourne.—Lorries and dray. | 829 Samwells & Reeves , Flinders-lane, Melbourne.—Carriages. |
| 814 Humby, A. G. , 59 Bourke-st., Melbourne.—Carriages. | 830 Sharp, A. M., & Sons , Lennox-st., Richmond.—Vehicles. |
| | 831 Stephens Bros. , Liebeg-st., Warrnambool.—Buggies. |
| | 832 Strickland & Sons , Latrobe-st. East, Melbourne.—Buggies, etc. |
| | 833 Tait, A. , 7 Hanover-st., Fitzroy.—Wheels. |
| | 834 Teague, J. & H. , 246 Swanston-st., Melbourne.—Carriages. |

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VOL. I.

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Largest Builders of High-class Carriages and Buggies in Australia

Landaus, Broughams. 400 Gold Medals and First Premiums.

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MELBOURNE CENTENNIAL INTERNATIONAL EXHIBITION.

835 Truscott, W., & Co., Clarendon-st., South Melbourne.—Baby carriages, etc.

836 Traynor, P. W., Moray-st., South Melbourne.—Improved axle arms.

837 Walker, H., Ivanhoe.—Farm dray.

838 Wallis, F. B., 50 Latrobe-st. East, Melbourne.—Bicycles, water meter, etc.

839 Waring Bros., Elizabeth-street, Melbourne.—Buggies.

840 Walters, J., Alexandra-parade, Fitzroy.—Buggy fittings.

841 West, J. & B., Essendon.—Farm dray and case shoes.

842 Whyte, W. & R., North Melbourne.—Lorries.

843 White, D., Swanston-st., Melbourne.—Carriages.

844 Williams & Sons, 131 Johnston-st., Collingwood.—Two buggies.

845 Wiegmann, A., 35 Post Office-place, Melbourne.—Carriages for children.

846 Wyatt & Simmons, Punt-road, South Yarra.—Carriages, etc.

Class 60.—Harness and Saddlery.

847 Altson, D., 25 Bourke-st. W., Melbourne.—Saddlery, leather, &c.

848 Brooks, A., 96 Brunswick-st., Fitzroy, Melbourne.—Stock, hunting, and general assortment of whip thongs.

849 Clark, F., Duke-st. (off Simpson's-road), Collingwood, Melbourne.—Assortment of whip thongs.

850 Coombs, W., Ascot Vale.—Green-hide whip thong.

851 Edwards & Co., 23 Little Collins-st., Melbourne.—Saddle-trees.

852 Guthridge & Co., 46 Lonsdale-st. W., Melbourne.—Saddlery and harness.

853 Hunter, W. H., 15 Post Office-place W., Melbourne.—Carriage harness, saddles, stable requisites.

854 Keystone, J., 14 Bourke-st. W., Melbourne.—Whips.

855 Kelly, W., Bolinda Vale, Lancefield Junction, Melbourne.—Horseshoes.

856 Kermode, W., 11 Little Lonsdale-st. W., Melbourne.—Patent leather-buggy horse collars.

857 Kinnear & Sons, Euroa, Kilmore, Vict.—Gentleman's riding saddle, buggy harness, &c.

858 Lancaster, J., 209 Gertrude-st., Fitzroy, Melbourne.—Horse-shoes.

859 Morris, A. H., Camperdown.—Patent unbreakable steel saddle trees and saddles made thereon.

860 McCarthy, E., 206 Elizabeth-st., Melbourne.—Horse harness of all descriptions.

861 M'Lachlan, W. R., Sale.—Saddles and bridles.

862 Naismith, W., & Co., Albert-st. W., Brunswick, Melbourne.—Harness dressing, axle oil.

863 Peter, J. M., Manifold-st., Camperdown, Victoria.—Stock, hunting, driving thongs and handles.

864 Pemberton, F., Beechworth, Victoria.—Horseshoes, &c.

865 Power, T. P., 33 Little Bourke-st. W., Melbourne.—General assortment of riding saddles and brown bridle-work.

866 Poulton, J. D., & Son, Sydney-st., Killmore, Vict.—Buggy harnesses and trace fastenings.

867 Smith, J. F., 59 Elizabeth-st., Melbourne.—Ladies' and gentlemen's riding saddles.

868 Thompson, M'Cabe & Thompson, Fitzroy-st., Fitzroy, Melbourne.—Safety hook and link for bridle, reins, stallion's leads, &c.

869 Topp, D., 29 Bourke-st. W., Melbourne.—Saddlery.

Class 61.—Railway Apparatus.

870 Barrett, G. G., 110 Collins-st., Melbourne.—Working model of locomotive engine and tender.

871 Brazenor & Valentine, Ballarat.—Model of sheep railway waggon.

872 Cameron, August, Whroo.—Railway sleepers.

873 Holten, R., Strand, Williamstown.—Model of railway carriage.

874 Hulme, W. H., Rowden-st., W. Melbourne.—Patent for removing wheels.

875 Kelly, W., 49 Collins-st. W., Melbourne.—Model of aerial tramway.

876 Kinderman & Witt, 120 Flinders-lane W., Melbourne.—Automatic motor and railway couplings.

877 Martin, W. H., Kent-st., Clifton Hill, Melbourne.—Railway gates.

878 M'Kenzie & Holland, 49 Flinders-lane W., Melb.—Models and interlocking apparatus for working and controlling points and signals, &c.

879 Orr, J., Registrar-General's Office, Melbourne.—Model of railway carriage.

880 Parker, W. & Co., 142 Queen's-parade, N. Fitzroy, Melbourne.—Railway wicket-gate, wrought-iron ornamental.

881 Phoenix Foundry Co. Ltd., Ballarat.—Passenger express bogie engine, with Westinghouse brake.

882 Summerfield, A., 13 Eldon-chambers, Bank-place, Collins-st. W., Melbourne.—Working model of automatic side-delivery railway truck.

883 Victoria Iron Rolling Co. Ltd., Dudley-st., West Melbourne.—Railway fastenings, buffers, and buffer guides.

884 Whyte, W. & R., Abbotsford-st., North Melbourne.—Draught, hunters', and hackney shoes.

Class 62.—Electric, Pneumatic, and other Apparatus and Processes.

885 Alcock, H. U., and Co.—Patent jumbo hoist (travelling) and coal humper.

886 Australian Electric Co. Ltd., Prince's Bridge, Melbourne.—Electric-light plant and apparatus.

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887 Australasian Electric Light, Power, and Storage Co. Ltd., Melbourne.—Brush dynamos, motors, &c. (see entry 1355, class 74).

888 Gosche, W. A., 3 Holcombe-terrace, Drummond-st., Carlton, Melbourne.—Electric sheep-shearing machine.

889 Hyde, T. C., & Co., Victoria Electric Works, Green-st., Richmond, Melbourne.—Electric bells, indicators, alarms, &c.

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VICTORIAN EXHIBITS.

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- 890 James, J. R.,** "Curlew," Royal Park, Melbourne.—Method of laying telegraph and telephone wires underground; also for lighting, &c.
- 891 Jackson, F. E.,** 47 Great Davis-st., South Yarra, Melbourne.—Electrical apparatus.
- 892 Jarvis, J. H.,** Lygon-st., Prince's Hill, North Carlton, Melbourne.—Improved microphone.
- 893 Moody, F. H.,** 173 High-st., St. Kilda, Melbourne.—Electric bells and indicators.
- 894 Taylor, S.,** James-st., Glenferrie.—Hydraulic engine for blowing organs, together with a generator for supplying wind.
- 895 Wolseley, F. J.,** South Melbourne.—Boiler and engine, also horse works to drive shearing machinery for shearing sheep.
- Class 63.—Appliances and Processes of Civil Engineering, Public Works, and Architecture.**
- 896 Abbott, C.,** Queen's-parade, Clifton Hill.—Model.
- 897 Alkermade Bros.,** Inkerman-st., St. Kilda.—Concrete brickwork, winnowing machines, etc.
- 898 Albany, H.,** Highett-st., Richmond.—Modeling, etc.
- 899 Atyeo, A. T.,** Lygon-st., Carlton.—Tablet.
- 900 Blight, J., & Co.,** Harcourt.—Granite, polished and rough.
- 901 Brooks, Robinson & Co.,** Elizabeth-st., Melbourne.—Mantelpieces and grates.
- 902 Brown, J. W.,** Madeline-st., Carlton.—Monumental work.
- 903 Bush, C. D.,** 120 G. P. O., Melbourne.—Brackets, skylights, roofing ventilation, etc.
- 904 Campbell, Sloss & McCann, Albion Iron Works, Yarra Bank, South Melbourne.**—Wrought-iron work.
- 905 Carter, T.,** Rowe-st., Fitzroy.—Model of timber bridge.
- 906 Chambers & Clutton,** corner Lonsdale and Elizabeth Sts., Melbourne.—Marble mantelpieces, fenders, baths, etc.
- 907 Christian & Richard,** Howard-st., North Melbourne.—Wrought iron carriage gates.
- 908 Cochrane & Scott,** 80 Elizabeth-st., Melbourne.—Ornamental ironwork, etc.
- 909 Cook & Legon,** City-road, South Melbourne.—Monuments, headstones, etc.
- 910 Council of Agricultural Education,** Public Offices, Melbourne.—Limestone.
- 911 Davies, Shepherd & Co.,** City-road, South Melbourne.—Water meters.
- 912 Danks & Sons, J.,** 42 Bourke-st., Melbourne.—Manual fire brigade engine, hose reel, etc.
- 913 Douglas & Sons Ltd.,** 100 Collins-st., Melbourne.—Marble mantelpieces, gas stoves, grates, etc.
- 914 Drayton, E. & W.,** Moore-st., Footscray, Melbourne.—Nuts, bolts, and taps.
- 915 Dudderidge, J.,** 40 Bank-st. West, South Melbourne.—Model of a staircase.
- 916 Edwards, E., & Sons,** 95 Flinders-st. W., Melbourne.—Iron and wood blocks and accessories used in lifting.
- 917 Ethell, J.,** Jasper-road, East Brighton.—Model of a brickyard.
- 918 Flowers, R.,** Cromer-road, Cheltenham.—Graining.
- 919 Ford, R. G.,** Thomas-road, East Brighton.—Pneumatic sub-marine rock-boring machine.
- 920 Grant, G. A.,** 44 Bourke-st. West, Melbourne.—Gas fittings, electric bells, water fittings, &c.
- 921 Hall, J., & Hoskins, W.,** 77 Lygon-st., Carlton.—Marble clock, fender, and table with marble top.
- 922 Hanman, G. T.,** Raglan-st., South Melbourne.—Model.
- 923 Henshaw Bros.,** 104 Johnston-st., Collingwood.—Marble and enamelled wood, tiles, grates, &c.
- 924 Horne, A., & Son,** 302 Gore-st., Fitzroy.—Masons' and bricklayers' tools.
- 925 Horwood, J. W.,** Albion Foundry, Castlemaine.—Fire bells.
- 926 Huxley, Parker & Co.,** Russell-st., Melbourne.—Marble and granite headstones, monuments, &c.
- 927 Jarvis, J. H.,** Lygon-st., Princes-hill, N. Carlton, Melbourne.—Wrought-iron railings for tombs.
- 928 Kruse, L., & Co.,** 88 City-road, South Melbourne.—Cement ware.
- 929 Lumley, W. H.,** City-road, South Melbourne.—Twelve mantelpieces, six fenders, lavatory tops, glazed tops.
- 930 Makutz & Barke,** 75 Bourke-st., Melbourne.—Fireproof safes, etc.
- 931 Mallett, H.,** 12 Andrew-st., Windsor.—Three sample doors.
- 932 Monk & Day,** Green-st., Windsor.—Patent staircase, etc.
- 933 Monteath, E., & Son, Iron Foundry, South Melbourne.**—Iron castings.
- 934 Morris, W., and Co.,** Swanston-st.—Patent process of brazing.
- 935 Murphy, F. E.,** City-road, South Melbourne.—Models.
- 936 Murray, H. R.,** 91 Cecil-st., South Melbourne.—Models of fountains, vases, columns, &c., in stone and wood.
- 937 New Zealand Stone Co.,** Yarra-bank, South Melbourne.—Dripline filters, rough and carved, etc.
- 938 Perugia, A., & Son, Exhibition-st., Melbourne.**—Statuary, ventilators, etc.
- 939 Poole, W. E.,** Bulleen-road, Kew.—Graining, etc.
- 940 Richard, F. C. W.,** 20 Howard-st., Hotham.—Ornamental art in metal.
- 941 Quinns, T., Patent Gas Co. Ltd.,** 18 Collins-st. East, Melbourne.—Apparatus and fittings for making pure gas from kerosene, &c.
- 942 Sleight & Co.,** Carlton.—Marble monuments, &c.
- 943 Sommer, J. C.,** Spring-st., Melbourne.—House decorations, etc.
- 944 Taylor, J.,** Granite Works, Footscray.—Colonial granite monuments.
- 945 United Linmer & Vorwoble Rock Asphalt Co.,** 41 Little Collins-st. East, Melbourne.—Asphalt in blocks, tiles, pavements, etc.
- 946 Victoria Iron Rolling Co. Ltd.,** Dudley-st., W. Melbourne.—Forgings in rough and finished bar iron.
- 947 Waters, S. T.,** Buckley-st., Footscray.—Specimens of graining.
- 948 Watson, R.,** Mornington.—Granites.
- 949 Webster & Co., J.,** 48 Villiers-st., North Melbourne.—Stawell stone, marble, etc.
- 950 Wilson, Corben & Co.,** 45 Elizabeth-st., Melbourne.—Enamelled slate, marble bath, marble, etc.
- 951 Williams & Hutchings,** Madeline-st., Carlton.—Ornamental stone.

Business Waggons and Vehicles of all Styles to Order.

5, 7, & 11 Latrobe-st. W., Melb. Factory—Brunswick-st., Fitzroy.

G. F. Pickles & Sons, Carriage Builders,

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MELBOURNE CENTENNIAL INTERNATIONAL EXHIBITION.

- Class 64.—Navigation and Life Saving.**
- 952 Brown, W., & Co., 157 Flinders-st., Melbourne.—Life-preserving vest.
- 953 Campbell, Sloss & McCann, Albion Ironworks, Yarra-bank, South Melbourne.—Steam yacht.
- 954 Corbett, C., 86 Newry-st., North Fitzroy, Melbourne.—Model of French despatch boat, in wood and ivory.
- 955 Edwards, E., & Son, 95 Flinders-st. W., Melbourne.—Yacht and boat fittings.
- 956 Edwards, J., & Son, Prince's-bridge, Melbourne.—Racing boats, canoes, oars, sculls, &c.
- 957 Fawcett, G., Albert Park Rowing Club, Melbourne.—Half models of yachts and pleasure boats.
- 958 Fuller & Buckeridge, Prince's-bridge, Melbourne.—One stroke four-oared racing outrigger, with improvements.
- 959 Gardiner, J., 43 Abbotsford-st., Hotham, Melbourne.—Screw propeller, used for drying steamships.
- 960 Gibson, G. & J., Glenaura, Auburn-road, Hawthorn, Melbourne.—Two working model steam launches.
- 961 Gordon, G. B., 22 Swanston-st., Melbourne.—Half models of vessels and yachts.
- 962 Greaves, H., H.M.S. Cerberus, Hobson's Bay, Melbourne.—Model of a full-rigged ship.
- 963 Greenland, W. J., Yarra-bank, Prince's-bridge, Melbourne.—Racing four-oared boat, pleasure boats and canoes.
- 964 Hills, —, 12 Swanston-st., Melbourne.—Working model by steam of an intercolonial steamship.
- 965 Huddart, Parker & Co., Collins-st., Melbourne (*see page 71*).
- 966 Jay, H., St. Kilda.—Improved life-buoy.
- 967 Jorgensen, S. J. E., H. Schreiber, 303 Punt-road, Richmond, Melbourne.—Life-saving apparatus, for use at sea.
- 968 Jones, J. R., Yacht Builder, Albert Park, South Melbourne.—Ship's life-boat, constructed not to upset or swamp.
- 969 Martin's Combined Mattress and Collapsible Life Boat Co., 13 Flinders-st., Melbourne.—Life-saving apparatus.
- 970 Murray, H. R., South Melbourne.—Models of yachts.
- 971 McMullen, J., jun., Burnett-st., St. Kilda, Melbourne.—Scale model sailing boat.
- 972 Parker, J. W., Post Office, Melbourne.—Experimental model of an oblique twin-screw propelling torpedo boat or launch.
- 973 Parker, S. W., 8 Stawell-st., Burnley, Richmond, Melbourne.—Full-rigged model of a three-masted ship.
- 974 Service, J., & Co., Collins-st. W., Melbourne.—Model of the Anglo-Australian S. N. Co.'s s.s. "Port Victor."
- 975 Secretary of Customs, Melbourne.—Life-saving apparatus.
- 976 Selby, J., 135 Albert-road, South Melbourne.—Model of steam vessel.
- 977 Simonsen, P., 333 Lygon-st., Carlton, Melbourne.—Model of paddle-wheel steam yacht.
- 978 Smith, H., & Sons Ltd., Melbourne.—Models, paintings, and photographs of the firm's intercolonial steamships.
- 979 Stevenson, J., Kangaroo Flat, Sandhurst, Victoria.—Model yacht of polished wood.
- 980 Strachan, C., Queen-st., Melbourne.—Life-saving apparatus.
- 981 Sutherland, G., Nelson-place, Williams-town, Melbourne.—Ship blocks, dead-eyes, &c.
- 982 Thirkettle, W. J., Kyneton, Victoria.—Models of yachts.
- 983 Wallace, T., 85 Osborne-st., Williamstown, Melbourne.—Miniature yacht.
- 984 Watts, W. K., Riverside, St. Hellier's-st., Abbotsford, Victoria.—Half models of yachts, &c.
- 985 White & Smith, 77 Dover-road, Williams-town, Melbourne.—Yacht's dingy, of Huon pine; model of s.s. launch "Customs No. 1."
- 986 White, W., Williamstown.—Models of ships and yachts.
- 987 White, R. M., Russell-st., Melbourne.—Life-saving apparatus.
- 988 Wilson, C., 201 Elizabeth-st., Melbourne.—Flags, banners, &c.
- Class 65.—Materials and Apparatus for Military Purposes.**
- 989 Moubray, Rowan & Hicks, Collins-st. W., Melbourne.—Military accoutrements.

VIII.

Alimentary Products.

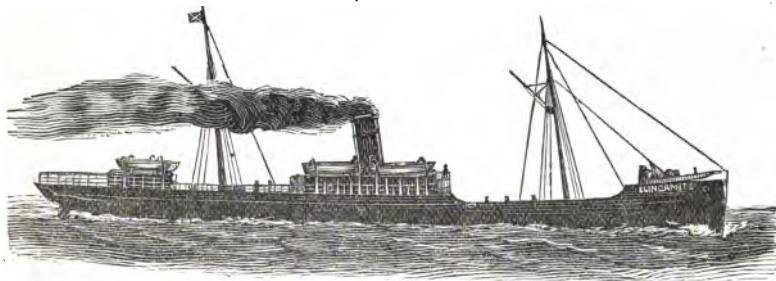
- Class 66.—Cereals, Farinaceous Products, and Products derived from them.**
- 990 Bencraft & Co. Ltd., 110 Flinders-lane W., Melbourne.—Oatmeal, pearl barley, maizemeal, arrowroot, wheatmeal.
- 991 Brown, M., South Yarra.—Tomato sauce.
- 992 Browning, A., Yarrawonga.—Wheat.
- 993 Bruce, G. R., Yarrawonga.—Wheat.
- 994 Brockhoff, A. F., & Co., Miller and Anderson Sts., W. Melb.—Biscuits and self-raising flour.
- 995 Brunton, T., & Son, Millers, Melbourne.—Patent roller flour, wheaten meal.
- 996 Charlesworth, J., Marong P.O., Victoria.—White Tuscan wheat, purple straw, &c.
- 997 Compressed Yeast Distillery and Vinegar Co. Ltd., St. Kilda-road, South Melbourne.—Compressed yeast.
- 998 Council of Agricultural Education, Public Offices, Melbourne.—Wheat, fodder plants.
- 999 Danelli, S., Sydney-road, Brunswick, Melbourne.—Alimentary paste, vermicelli, Loddon flour.
- 1000 Deutscher, C. J., Woorak, Lowan, Victoria.—Wheat.
- 1001 Dimboola & North Wimmera Agricultural & Pastoral Society.—Wheat.

5, 7, & 11 Latrobe-st. W., Melb. Factory—Brunswick-st., Fitzroy.

Huddart, Parker & Co., Collins-street West, Melbourne.—Models of Steamships.

H U D D A R T , P A R K E R & C O .

The Steamers owned by this firm comprise the "Elingamite," "Burrumbeet," "Wendouree," "Lindus," and "Nemesis," trading between Melbourne, Sydney, and Newcastle; the "Courier," "Excelsior," "Alert," and "Despatch," trading between Melbourne, Portarlington, and Geelong; also the powerful side-keel Screw Tug Boats, "Eagle" and "Falcon," the only boats of this class in the Southern Hemisphere.



S.S. "ELINGAMITE."

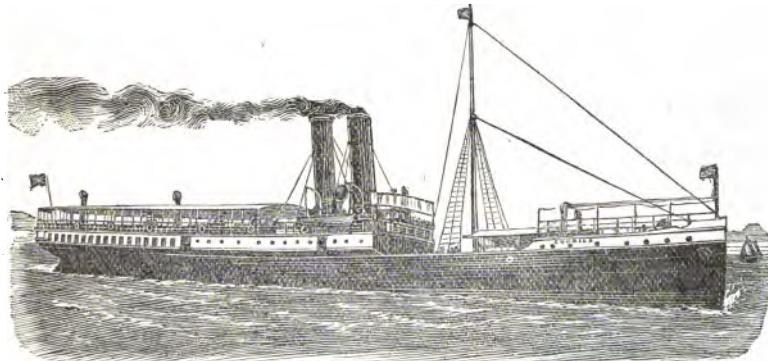
The "Elingamite" and "Burrumbeet" are the largest Passenger Steamships employed on the Australian Coast. They are fitted with the most modern machinery, thereby reducing vibration to the utmost, and are amongst the fastest Boats in the Trade.

All the newest improvements have been introduced in their construction, including Social Halls, Ladies' Retiring Rooms, Smoking Rooms, and Spacious Saloons extending the full width of the ships.

The Forecabin are on the Main Deck, and are exceedingly lofty, well fitted, and ventilated.

The Electric Light is installed throughout these ships, and they are the only vessels owned in Australia that are placed on the Admiralty List for Transports, having been specially built to ensure the safety of Passengers, and to meet the requirements of the Admiralty.

They have spacious Promenade Decks, and by their great size, easy motion, and diminished vibration, the liability of passengers to sea-sickness is reduced to a minimum. The "Elingamite" is also fitted as an Armed Cruiser.



S.S. "COURIER."

The Steamships "Courier," "Excelsior," "Alert," and "Despatch," were all built specially for trading between Melbourne, Portarlington, and Geelong.

The "Courier," the latest addition to this Fleet, is a vessel unique of her class. She is one of the fastest Passenger Vessels afloat, her Triple Expansion Engines indicating 3000 horse-power, and propelling her with ease at the rate of 20 miles an hour.

This magnificent vessel has luxurious accommodation for Passengers; her spacious Promenade Deck is protected with a permanent awning, impervious alike to sun and rain; her splendid Drawing Saloon has large side-windows, and is so fitted as to combine the comforts of a Boudoir Railway Car with the ease of an Ocean Steamer. The Dining Saloon is fitted to seat 120 passengers, and strict attention is paid to the Providing Department, where the best viands are dispensed at most moderate prices.

Her Forecabin is well ventilated, and fitted for passengers of both sexes.

The "Courier" is as remarkable for her easy sea-going qualities as for her great speed.

This boat leaves Queen's Wharf Daily at 10 a.m. during the Summer Months.

Well-known Manufacturers.

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MELBOURNE CENTENNIAL INTERNATIONAL EXHIBITION.

- BEST QUALITIES OF SOAP.**
- 1002 Farmers' Agency Company, King-st., Melbourne.—Grain and farm produce.**
- 1003 Fox, J., Lortont Vale, Yarck, Alexandra, Victoria.—Wheat.**
- 1004 Furphy, F., sen., Shepparton, Victoria.—Triumph oats.**
- 1005 Gillespie, J., & Co., corner of Leicester and Queensberry Sts., Carlton, Melbourne.—Flour made with patent rollers.**
- 1006 Gordon, P., Ballyrogan, Victoria.—Tartarian oats.**
- 1007 Goulburn Valley Vine, Fruit, & Special Products Association, Mooroopna.—District trophy of agricultural & horticultural produce.**
- 1008 Harper, R. J., & Co., Flinders-lane E., Melbourne.—Oatmeal, pearl barley, rice, &c.**
- 1009 Hill, J., Cherry-tree Creek, via Bealiba, Victoria.—Wheat.**
- 1010 Hirth, H., Dart Dart, via Dimboola, Victoria.—Wheat.**
- 1011 Hood, T. H., & Co., Collingwood.—Malt.**
- 1012 Hughes, D. S., & Co., 10 Lonsdale-st. E., Melbourne.—Agricultural and grass seeds.**
- 1013 Hubbard, W., Steel's Creek via Yarra Flats, Victoria.—Tartarian and Danish oats.**
- 1014 Keytee, J., Mount Arapiles, Natimuk, Victoria.—Maiden wheat.**
- 1015 Kilpatrick & Co., grain merchants, Numurkah, Victoria.—Chevalier malting barley.**
- 1016 Kierath, W., Cornishtown, Lower Indigo, Victoria.—Wheat.**
- 1017 Kyneton Agricultural Association, Kyneton, Victoria.—Cereals, &c.**
- 1018 Lanagan, J., Lallat Plains, Rupanyup, Victoria.—Wheat.**
- 1019 Lawson, J. S., Kewell.—Wheat.**
- 1020 Lewis, M., Ballyrogan, Buangor, Victoria.—Wheat and oats.**
- 1021 Lewis, W., Shepherd's Hut, near Daylesford, Victoria.—Wheat, purple straw oats.**
- 1022 Liddle, W., Kewell North, Victoria.—Wheat.**
- 1023 Maxwell, D., Cullen Post Office, Victoria.—Varieties of wheat.**
- 1024 Masson, W. J., North Lillimur, Victoria.—Wheat.**
- 1025 Middleton, D., Toora Post-office, South Gippsland.—Potatoes.**
- 1026 Morton, B. K., Melbourne.—Stack of sweet ensilage.**
- 1027 McDonald, J., Myall Park, Cullen, Coleraine, Victoria.—Wheat.**
- 1028 M'Kenzie, James F., & Co., 6 Queen-st., Melbourne.—Rice, oatmeal, barley.**
- ESTABLISHED 1853.
- Medals and Awards at Exhibitions in London, Vienna, Paris, Philadelphia, Sydney, Melbourne.
- 1029 New Zealand Loan & Mercantile Agency Co. Ltd., Collins-st. W., Melb.—Grain.**
- 1030 North-Eastern & Goulburn Valley Agricultural & Pastoral Association, Tatura, Victoria.—Wheat, oats, barley.**
- 1031 Numurkah Agricultural and Pastoral Association, Numurkah.—Barley.**
- 1032 Parsons Bros. & Co., Collins-st. West, Melbourne.—Coffee, chicory, spices, rice, oatmeal, etc.**
- 1033 Pfaff, Pinschhof & Co., 13 Flinders-lane, Melbourne.—Jubilee meal and nutrine.**
- 1034 Polson, A., View Point, Ararat, Victoria.—Wheat and barley.**
- 1035 Pratt, Hayes & Co., 53 Flinders-lane W., Melbourne.—Patent roller flour.**
- 1036 Pyne, C., 43 Elizabeth-st. North, Melbourne.—Horse and cattle food.**
- 1037 Rogers, E. C., Horsham.—Wheat.**
- 1038 Roberts & Parry, Brynhyfryd Farm, Franklinford, Victoria.—Wheat and oats.**
- 1039 Schultz, J. D., Murtoa.—Wheat.**
- 1040 Schmitt, F., Post Office, Harkaway, Victoria.—Rye.**
- 1041 Sievwright, C. F., 11 Durham-st., South Melbourne, Victoria.—Extracts of meat, nerve tonics, &c.**
- 1042 Smith, Winn & Fielding, 104 Collins-st. W., Melbourne.—Victorian-made malt.**
- 1043 St. Arnaud Pastoral Society, St. Arnaud.—Wheat.**
- 1044 Swallow & Ariell Ltd., Queen-st., Melbourne.—Trophy of flour, self-raising aerated wheat meal, digestive do. (see page 78).**
- 1045 Tankard Malting Co. Ltd., 194 Flinders-lane, Melbourne.—Malt.**
- 1046 Tepper, J. P., Coromby.—Wheat.**
- 1047 Thompson, J. L., Cashel, Victoria.—Varieties of wheat, oats, and barley.**
- 1048 Thompson, H., jun., Dry Lake, Kerang, Victoria.—Wheat and barley.**
- 1049 Turnbull, F., & Co., 122 Collins-st. W., Melbourne.—Hops.**
- 1050 Ward, R. J., Firebrace-st., Horsham, Victoria.—Wheat.**
- 1051 Water Mill Co., 53 Flinders-lane W., Melbourne.—Patent roller flour.**
- 1052 Watts, A., Cloverdale, Horsham, Victoria.—Wheat and chaff.**
- 1053 White, C., Ballarat.—Malt and barley.**
- 1054 Whittingham Bros., Excelsior Mills, Little Collins-st. W., Melbourne.—Stone-made flour, pearl barley, maizeena.**
- 1055 Yeaman, E., Tennyson Post Office, near Rochester, Victoria.—Wheat in sheaf and bulk, grasses.**
- Class 67.—Bread and Pastry.**
- 1056 Bidwell, J. H., Market-st., St. Kilda, Melbourne.—Wedding and birthday cake.**
- 1057 Brookoff & Co., Victoria Biscuit Manufactory, corner Miller and Anderson Streets, West Melbourne.—Biscuits.**
- 1058 Dehnike, A., 145 Napier-st., Fitzroy, Melbourne.—Ornamental wedding cake.**
- 1059 Guest, T. B., William-st., Melbourne.—Biscuits, machine and hand made.**
- 1060 Stephens, T. H. J., Victoria Parade, Collingwood.—Confectionery.**
- 1061 Swallow & Ariell Ltd., Queen-st., Melbourne.—76 distinct kinds of biscuits; cakes, puddings, gingerbread, &c.**
- 1062 Vine, W., Eastern-arcade, Bourke-st., Melbourne.—Wedding and birthday cakes, confectionery.**
- Class 68.—Fatty Substances used as Food.**
- 1063 Balfour, Hon. J., M.L.C., "Tyalla," Toorak.—Olive oil.**
- 1064 Council of Agricultural Education, Public Offices, Melbourne.—Butter, oils, and silk.**
- 1065 Lewis & Whitty, 28A Flinders-lane W., Melbourne.—Culinary essences and oils.**

Macaulay Road, Hotham.

SWALLOW & ARIELL LIMITED, MELBOURNE.

Factory and Office:
PORT MELBOURNE.

City Office and Depot:
4 QUEEN ST. and 2 BOND ST.



LIST OF MANUFACTURES:

BISCUITS.

A.B.C.	Charms	Dominos	Lemon Ginger	Pearl	Sultanas
Abernethy	Chocolate	Exhibition	Nuts	Picnic	Tea Cakes
Alberts	Wafers	Fancy Mixed	Lime	Prince of Wales	Toast
Arrowroot	Coffee	Federal	Luncheon	Queen Drops	Tom Thumb
Balmoral	Coalition	Funny Folks	Macaroons	Raspberry	Victoria
Beaconsfield	Cocoanut	Gem	Meringues	Wafers	Wafer
Beef	Cracknels	Ginger Nut	Milk Digestive	Ratafias	Water
Biscuit Comfits	Currant	Ice Wafers	Milk	Rice	Wine
Butter	Luncheon	International	Nic-Nacs	Rusks, Plain	Zoological
Cabin	Demilune	JUBILEE	Nursery	Rusks, Sutton	
Cabin, Small	Dessert	Ladies' Fingers	Oaten	Savorys	
Captains, Thin	Digestive	Leaflet	Oatmeal	Shortbread	
Celery	Crackers	Lemon Drops	Pencil	Soda	
CABIN and PILOT BREAD.					
DOGS' BREAD (three qualities).					

CAKES.

CANTERBURY, GORDON, FAMILY, CHRISTMAS, TEA MEETING, BIRTHDAY, PRESENTATION.

WEDDING CAKES A SPECIALTY.

INSPECTION INVITED.

SHOW ROOMS: 4 Queen Street, and at Factory.

Treacle, Golden Syrup, Self-Raising Flour, Plum Puddings, Mince Meat, Digestive Meal (a new breakfast delicacy). INFANTS' Food prepared on Scientific Principles, &c., &c.

SPECIAL GOLD MEDAL

And Seven First Prizes, Melbourne International Exhibition, 1881.

- 1066 **Swallow & Ariell**, Queen-st., Melbourne.—Milk food for infants.
 1067 **Winn, J. C.**, 104 Collins-st. W., Melbourne.—New cattle food.
 1068 **Wood, Dunn & Co. Limited**, 9 Market-st., Melbourne.—Butter.

Class 69.—Meat and Fish.

- 1069 **Devers, C.**, High-st., Northcote, near Melbourne.—Bacon, German sausages.
 1070 **Flemington Meat-Preserving Co.**, 12 Bond-st., Melbourne.—Preserved meats and soups.
 1071 **Grimes, S. & Co.**, Brunswick Curing and Freezing Works, Moreland-road, Brunswick, Melbourne.—Bacon, ham, lard, sausages.
 1072 **Lees & Co.**, Williams-place, Cliffe-st., South Yarra, Melbourne.—Excelsior Worcester sauce, anchovies, catsup, &c.
 1073 **Niemann & Co.**, manufacturing chemists, New-st., Middle Brighton, Melbourne.—Patent beef juice.
 1074 **Swallow & Ariell**, Queen-st., Melbourne.—Mince meat.
 1075 **Watson & Paterson**, Queen and Bourke Sts., Melbourne.—Exhibit.

Class 70.—Vegetables and Fruit.

- 1076 **Aboriginal Station**, Coranderrk, Victoria.—Hops.
 1077 **Brooker, W. jun.**, Bairnsdale, Victoria.—Hops.
 1078 **Brown, W. P.**, Dandenong-road, Malvern, Melbourne, Victoria.—Tomato sauce.
 1079 **Calvert, J.**, Bairnsdale, Victoria.—Hops.
 1080 **Council of Agricultural Education**, Public Offices, Melbourne.—Dried fruits, potatoes.
 1081 **Crawford, H. A.**—Hops.
 1082 **Dickins, R. & Co.**, Market-st., Melbourne.—Hops.
 1083 **Ferguson, J.**, 7 Market-st., Melbourne.—Hops.
 1084 **Findlay, W. D.**, Bishoppton, Mirboo, Victoria.—Potatoes, vegetables.
 1085 **Gray & Scott**, Briagolong, Gippsland, Victoria.—Hops, season 1888.
 1086 **Hoppner, H.**, Tambo.—Hops.
 1087 **Hubbard, W.**, Steel's Creek, Yarra Flats, Victoria.—Apples.
 1088 **Kavanagh, M.**, Mooroopna, Victoria.—Raisins.
 1089 **Landy, M.**, Briagolong, Maffra Shire, Gippsland, Victoria.—Varieties of potato, hops.
 1090 **Lewis, W.**, Shepherd's Hut, near Daylesford, Victoria.—Peas, broad beans, perennial grass seeds.
 1091 **Longmore, F.**, 138 Bourke-st. E., Melbourne.—Pumpkins, melons, squashes, marrows, cucumbers, &c.
 1092 **Mellan, J.**, Dunolly, Victoria.—Dried fruits, raisins, apricots, &c.
 1093 **Mibost**, Bairnsdale.—Eagle brand, packet hops.
 1094 **Moody, J. O.**, 75 William-st., Melbourne.—Hops.
 1095 **M'Knight, J.**, Tambo, Hops.
 1096 **Nixon, H.**, Tambo, Victoria.—Hops.
 1097 **Phelan, D.**—Hops.
 1098 **Poulson, M.**—Hops.
 1099 **Rhein & Poulsen**, Bairnsdale, Victoria.—Hops.

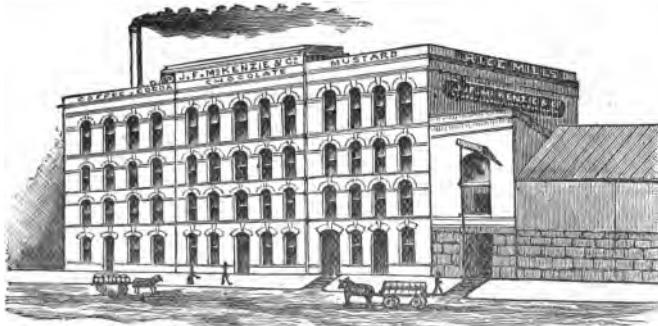
- 1100 **Robinson, Mrs. G. W.**, Hillsley, Berwick, Victoria.—Sun-dried fruits.
 1101 **Schmidt, F.**, Post Office, Harkaway, Victoria.—Peas.
 1102 **Thompson, J. L.**, Cashel, Victoria.—Peas.
 1103 **Turnbull, F. & Co.**, Collins-st. West, Melbourne.—Hop bitters and hops.
 1104 **Vince, D.**, Essex Farm, Bridgewater-on-Loddon.—Raisins, dried figs, and apples.
 1105 **Vivian, T.**, Maldon, Victoria.—Dried apples.
 1106 **Willey, R.**, East Bellarine, Victoria.—Vegetable seeds.

Class 71.—Condiments and Stimulants, Sugar and Confectionery.

- 1107 **Allen & Clements**, Spring Creek, Beechworth.—Bogong sauce.
 1108 **Atkin, C. A.**, 41 Errol-st., North Melbourne.—Atkin's quinine wine.
 1109 **Australian Salt Manufacturing Co.**, 13 Little Collins-st. West, Melbourne.—Colonial-made salt.
 1110 **Barrett, W.**, Clayton-st., Ballarat, Victoria.—Worcester sauce.
 1111 **Bates, C. F.**, 243 Albert-st., East Melbourne.—Cocoa, chocolate, mustard, coffee, spices.
 1112 **Bond, E.**, Post-office, Neereman, Loddon, Victoria.—Canned fruits.
 1113 **Brockhoff, Gutheil & Co.**, corner Miller and Anderson Sts., West Melbourne.—Vinegar in bulk.
 1114 **Comport, H.**, Cheltenham, Victoria.—Tomato sauce.
 1115 **Compressed Yeast Distillery and Vinegar Co. Ltd.**, St. Kilda-rd., South Melb.—Brown malt vinegar, white wine do., culinary do.
 1116 **Constantia, Mitchell & Selby**, Smith-st., Fitzroy, Melbourne.—Confectionery.
 1117 **Cunliff & Paterson**, Red Heart Preserving Factory, Swanston-st. N., Melbourne.—Preserved tomatoes and fruits of all kinds.
 1118 **Cuttriss Bros.**, 42 Elizabeth-st., Melbourne.—Aerated water trophy.
 1119 **Dyason & Son**, corner of Cambridge and Oxford Sts., Collingwood, Melbourne.—Vinegar, sauces.
 1120 **Evans, W. F.**, 107 Swanston-st., Melbourne.—Confectionery, &c.
 1121 **Fresh Food and Natural Mineral Waters Co. Ltd.**, Bourke-st. East, Melbourne.—Aerated and natural mineral waters.
 1122 **Goulburn Valley Aerated Waters Co.**, Langton-st., North Fitzroy.—Aerated waters, etc.
 1123 **Granville & Andre**, Howard-st., West Melbourne.—Cordials, &c.
 1124 **Gray, R. & Son**, Mulberry-st., Richmond, Melbourne.—Aerated waters.
 1125 **Green, S. & Co.**, Young and Moor Sts., Fitzroy, Melbourne.—Cordials, aerated waters.
 1126 **Gunner, C.**, Ballan Mineral Springs, Bunding, Victoria.—Mineral waters.
 1127 **Harper, R. & Co.**, Flinders-lane E., Melbourne.—Coffee, tea, mustard, cocoa, &c.
 1128 **Hattersley, J.**, Yackandandah, Victoria.—Soda-water, lemonade, ginger ale, &c.
 1129 **Henshall, Mary**, Seymour, Victoria.—Preserved fruits.
 1130 **Hoadley, A.**, Burwood, Victoria.—Tomato sauce, jams, jellies.

1141 M'Kenzie, James F., & Co., 6 Queen-st., Melbourne.—Coffee, chicory, ginger, spices, nutmegs, &c.
Proprietors of the celebrated

"EXCELSIOR" BAKING AND EGG POWDER, and of "SUN, MOON, AND STARS" CURRY POWDER.



ESTABLISHED 1853.

Medals and Awards at Exhibitions held in London, Vienna, Paris, Philadelphia, Sydney, and Melbourne.

1131 Holt, R., 19 Latrobe-st., Melbourne.—Pickles.

1132 Hood, T., & Co., 44 Islington-st., Collingwood, Victoria.—Victorian-made malt.

1133 Joshua Bros., 5 Queen-st., Melbourne.—Cordials.

1134 Kierath, C., Cornishtown, Lower Indigo, Victoria.—Jams, tomato, chutney, sauces, honey.

1135 Kingsland & Sons, G., William-st., West Melbourne.—Curry and baking powders.

1136 Loan, L., Walhalla, North Gippsland, Victoria.—Aerated waters, bitters, &c.

1137 MacRobertson, —, Argyle-st., Fitzroy.—Confectionery.

1138 Marks, E. B., Little Collins-st., Melbourne.—Health bitters.

1139 Maskell, R., 11 Cobden-st., Horsham, Victoria.—Pickles, sauces, jams, &c.

1140 McDonald, M., Madeline-st., Carlton.—Cordials and liqueurs.

1142 O'Donnell, R., 20 Collins-st. W., Melbourne.—Aerated waters and cordials trophy.

1143 O'Sullivan, Lanigan & Co., 67 York-st., Fitzroy, Melbourne.—Aerated waters and cordials trophy.

1144 Palmer, R., Clayton's-road, Gippsland Line.—Tomato sauce, mushroom catsup, &c.

1145 Peacock, G., & Sons Ltd., Melbourne.—Jams, jellies, pickles, canned tomatoes, &c.

1146 Reed, H., & Co., Victoria Vinegar Works, Toorak-road, South Yarra, Melbourne.—Bottled vinegar.

1147 Robinson, Mrs. G. W., Hillsley, Berwick, Victoria.—Jams.

1148 Rosenthal, Aronson & Co., 15 Little Collins-st., Melbourne.—Dr. Law's hop bitters.

1149 Rowland, H., & Son, Victorian and Dandelion Ale Factory, Duke-st., Collingwood, Melb.—Victorian ale, dandelion ale, and hop champagne.

These drinks have received First Prizes wherever exhibited, including three at the late Adelaide Exhibition, 1888, and are non-alcoholic, manufactured from the best Gippsland hops, granular sugar, and DANDELION, and are warranted to keep any length of time, and improve by so doing. Brewed and bottled only by H. ROWLAND & SON.

1150 Rowlands, E., Melbourne and Ballarat.—Aerated waters.

1151 Russell, A., 85 Best-st., North Fitzroy, Victoria.—Tomato sauce.

1152 Sears, T. H., Nicholson-st., North Brunswick, Melbourne.—Cordials and aerated waters.

1153 Shackleton, J. B., 3 Elgin-st., Carlton, Melbourne.—Barley sugar, whistles, creams, &c.

1154 Spink, E. J. & S., 147 Latrobe-st., Melbourne.—Jams, jellies, preserved fruits, &c.

1155 Stewart & Dodsworth, brewers and cordial manufacturers, Wangaratta, Victoria.—Vinegar, sauce, &c.

1156 Swallow & Ariell, Queen-st., Melbourne.—Sugar, etc.

1157 The "Red Cross" Preserving Co., Chapel-st., South Yarra.—Jams, jellies, preserved fruits, canned goods, &c.

1158 Wilson, T., Islington-st., Collingwood, Melbourne.—Aerated waters and cordials trophy.

1159 Wilson, W., Sydney-road, Brunswick, Melbourne.—Drysalteries, essence of coffee.

1160 Worboise, F. M., 74 Punt-road, Prahran, Melbourne.—Ornaments for wedding cakes.

1161 Zorn, E., Clayton's-road, Gippsland Line.—Tomato sauce, curry powder, &c.

- 1172 Caldwell & Co., 114 Collins-st., Melbourne.**
—Wine trophy.



**CALDWELL'S AUSTRALIAN WINE CO.
LIMITED.**

WINE MERCHANTS, EXPORTERS, AGENTS, &c.
Registered Office :
114 Collins-street West, Melbourne.

Cellars:
Yarra Bank, South Melbourne, and Collins-street West.

New South Wales Branch :
WAGGA WAGGA, N.S.W.

Indian Agencies :

Messrs. OAKES & CO., MADRAS.

Messrs. WM. WATSON & CO., BOMBAY.

Sole Proprietors of—

Caldwell's Celebrated "Crown Brand" Wines
and "Ngarveno" Hock.

A large stock of Murray River, Bendigo, and other
Wines in the Cellars.

The Wines may be obtained at the DINING ROOMS
and REFRESHMENT BARS, or sampled at the
COMPANY'S TROPHY in the Victorian Wine Court.

Class 72.—Fermented and Distilled Drinks.

[For Wine, Spirits, &c., in Exhibition cellars
for competition, see "Addenda," page 57, the
following only representing trophies.]

- 1162 Allen & Clements, Spring Creek Brewery,
Beechworth, Victoria.—Bottled ale and porter.**
- 1163 Anthones, G., Southern Brewery, Abin-
ger-st., Richmond, Melbourne.—Ale, stout.**
- 1164 Australian Freehold Land and Pro-
duce Co. Ltd., 135 Collins-st., Melbourne.—
Wine trophy.**
- 1165 Billson, A. A., Brewer, Last-st., Beechworth,
Victoria.—Ale and porter.**
- 1166 Blogg, J. K., & Co., City-road, South Mel-
bourne.—Liqueurs.**
- 1167 Bosisto & Co., Bridge-st., Richmond, Mel-
bourne.—Eucalyptus liqueur, an aromatic tonic.**
- 1168 Boyd, H. C., Shamrock Brewery, Colling-
wood, Melbourne.—Ale, stout.**
- 1169 Brache & Co., Robb's Buildings, 128 Col-
lins-st., Melbourne.—Wine trophy.**
- 1170 Browne, H. J., Yarra-bank, South Mel-
bourne.—Rum, brandy, whisky, spirits of wine.**
- 1171 Busse, F., Burrrabunnia Vineyard, Burra-
bunnia.—Wines.**
- 1173 Castlemaine Standard Brewery Co.
Ltd., Castlemaine.—Beer and stout.**
- 1174 Caughey, A., Mount Prior Vineyard, Goor-
aminda, Victoria.—Wine trophy, wine in bulk
and bottle.**
- 1175 Caughey Bros. & Co., William-st., Mel-
bourne.—Wine.**
- 1176 Compressed Yeast Distilling and
Vinegar Co. Ltd., St. Kilda-road, South Mel-
bourne.—Alcoholic spirits.**
- 1177 Council of Agricultural Education,
Public Offices, Melbourne.—Hermitage and Chas-
selas wines.**
- 1178 Foster Brewing Co., 21 George-st., Fitz-
roy, Melbourne.—Lager beer.**
- 1179 Galli, A., & Co., 111 Bourke-st., Melbourne.
—Wine trophy.**
- 1180 Gooch, H. M., & Co., 99½ Collins-st. W.,
Melbourne.—Trophy of wines.**
- 1181 Grromann & Co., 50 Flinders-lane E., Mel-
bourne.—Victorian wines.**
- 1182 Greer, E., & Co., 1 Market-st., Melbourne.
—Wine trophy.**
- 1183 Graham Bros., Netherby Vineyard, Ruther-
glen, Victoria.—Wine trophy.**
- 1184 Haig, R. G., & Co., 23 Market-st., Mel-
bourne.—Irish and Scotch whisky trophy.**
- 1185 Hood, J., & Co., Maltsters, Islington-st.,
Collingwood, Melbourne.—Colonial whisky, malt.**
- 1186 Hop Bitters Manufacturing Co., 129
Spring-st., Melbourne.—Hop bitters.**
- 1187 Irvine, H., Great Western.—Wines.**
- 1188 Joshua Bros., 5 Queen-st., Melbourne.—
Liqueurs.**
- 1189 Kitz, L., & Son, Selborne-chambers, Mel-
bourne.—Wines.**
- 1190 Kyneton Brewing & Malting Co.
Ltd.—Beer.**
- 1191 Laurence, A., & Co., 130 Collins-st. W.,
Melbourne.—Hop bitters, quinine wine.**
- 1192 Macpherson & Smee, Burton Brewery,
Stanley-st., Melbourne.—Ale and stout.**

1193 McCracken, R., & Co., City Brewery, Collins-st. W., Melbourne.—Ale and stout trophy.

M'CRACKEN'S CITY BREWERY LIMITED.



COLLINS STREET WEST, MELBOURNE.

1194 Melbourne Brewing & Malting Co. Ltd., Carlton Brewery, Melbourne.—Pale and bitter ales and stout.

1195 Miller & Mason, Western City Brewery, Melbourne.—Ales.

1196 Miller, H., New-st., Elsternwick, near Melbourne.—Ale trophy.

1197 Montgomerie, R. K., King-st., Melbourne.—Ale and porter trophy.

1198 Morris, G. F., & Sons, Fairfield Vineyard, Brown's Plains, Victoria.—Wine trophy.

1199 M'Dougall, J., & Co., 17 Queen-st., Melbourne.—Victorian wines.

1200 Nation, J., & Co., Victoria Brewery, Victoria-parade, Melbourne.—Beer, stout, and spirits trophy.

1201 Oakley, Adams & Co., Planet-buildings, Melbourne.—Wine vats and bottles trophy.

1202 Phoenix Distillery, 310 Bay-st. Port Melbourne.—Spirits.

1203 Reichelt, F. W., corner of Punt-road and Clowes-st., South Yarra, Melbourne.—Dandelion ale and German Weissbeer.

1204 Smith, G. S., & Sons, 8 Bourke-st. W., Melbourne.—Australian wines and trophy.

1205 Smith, J. H., Mundappa, Barnawartha.—Wines.

1206 Stewart & Dodsworth, brewers and cordial manufacturers, Wangaratta, Victoria.—Ale, porter, hop bitters, and aerated waters.

1207 Terry's West End Brewery Co. Ltd., 137 Flinders-st., Melbourne.—Trophy, raw materials, finished products, &c.

1208 Trood, T., & Sons, 173 Fitzroy-st., Fitzroy, Melbourne.—Trophy Gippsland hop bitters; cordials, wines, liqueurs, &c.

1209 Tulloch & McLaren.—Paterson-st., Ballarat, Victoria.—Ales and stouts.

1210 Warrenheip Distillery, 69 E Unlimited, Ballarat, Victoria.—Whisky, Geneva, rectified spirits of wine.

1211 White, E., & Co., Dublin Brewery, Church-st., South Richmond, Melbourne.—Ale and porter.

1212 Wood, & Sons' Yorkshire Brewery Co. Ltd., 88 Wellington-st., Melbourne.—Porter, ale.

MELBOURNE CENTENNIAL INTERNATIONAL EXHIBITION.

IX.

Sanitation, Medicine, Hygiene, & Public Relief.

Class 73.—Sanitary Appliances, Surgical Instruments, Plans, Models, &c.

- 1213 Adams, R. T., Dahlke's Filter Co., City-road, South Melbourne.—Filters in earthenware, canvas, copper, glass.
- 1214 Atkinson, E. K., 102 Collins-st., Melbourne.—Ladies' surgical appliances.
- 1215 Australian Health Society, 41 Collins-st. E., Melb.—Models, diagrams, analyses, showing constituents of dangerous food adulteration, &c.
- 1216 Bowen, W., & Co., 45 Collins-st. W., Melbourne.—Dentistry appliances.
- 1217 Brown, J. W., Madeline-st., Carlton.—Coffin, and appliances to prevent contagion at funerals.
- 1218 Carter, D., Victoria-st., Collingwood.—Octagon pedestal.
- 1219 Cooper, R. A., 46 Russell-st., Melbourne.—Artificial teeth mounted in different substances.
- 1220 Davies, Shepherd & Co., Melbourne.—Filters.
- 1221 Drainfield, Pike & Co., 139 Collins-st. W., Melbourne.—Patent disinfectant.
- 1222 Draper, G., 88 Bourke-st. W., Melbourne.—Patent earth and disinfectant closets and commodes.
- 1223 Eakell, L., 76 Bourke-st. E., Melbourne.—Prosthetic dentistry.
- 1224 Ford & Hull, corner of Park and Perrin sts., South Melbourne.—Mechanical dentistry.
- 1225 Fraser, A., 35 Gordon-place, Little Bourke-st., Melb.—Patent earth-closets, with disinfecting and other appliances.
- 1226 Gunn, W. R., & Co., 106 Lonsdale-st. E., Melbourne.—Artificial limbs, spinal supports, bandages, &c.
- 1227 Hartshorn & Co., 130 Collins-st. E., Melbourne.—Ladies' and gentlemen's belts and surgical appliances.
- 1228 Headen, T., & Sons, 11 Eastbourne-st., Melbourne.—Patent earth closet.
- 1229 Hesse Sanitary Co., 43 Elizabeth-st., Melbourne.—Sanitary chemical appliances and preparations.
- 1230 Henderson, G. M., Cathkin House, Park-st., S. Yarra, Melb.—Patent system for destroying and removing noxious vapours from water-closets.
- 1231 Howie, C. H. P., Albert-st., Creswick.—Model of bath.
- 1232 Hyland, F., Hillgrove-terrace, Canning-st., Carlton, Melbourne.—Artificial teeth.
- 1233 Jarvis, J. H., Lygon-st., Prince's-hill, Carlton, Melbourne.—Improved zinc bath.
- 1234 Jeffrey, A. H., corner of Osborne-st. and Toorak-ridge, WAGG Yarra, Melbourne.—High and low press. Ind.
- 1235 Johnstone, O'Bros., 73 Bourke-st. W., Melbourne.—P.W.M. in glass, majolica, Bristol ware, and canvas.
- 1236 Kendall, W. T., Veterinary Institute, Brunswick-st., Fitzroy, Melbourne.—Anatomical specimens, veterinary instruments and appliances.
- 1237 Kingsland, G., & Sons, William-st., West Melbourne.—Compound deodorant.
- 1238 Lewis & Whitty, 28A Flinders-lane W., Melbourne.—Oderbane, vegetable deodorant.

- 1239 Mourant, J. T., 77 Oxford-st., Collingwood Melbourne.—Sanitary turnery.
- 1240 Moody, F. H., 173 High-st., St. Kilda, Melbourne.—Continuous batteries for Voltaism and Faradism.
- 1241 Mier, A. B., 118 Victoria-st., North Melbourne.—Artificial teeth on various substances.
- 1242 M'Kenzie, W., Lygon-st., North Carlton, Melbourne.—Automatic high-pressure concentrical and dripstone filters.
- 1243 Proctor, T. R., 7 Burlington-terrace, Albert-st., East Melbourne.—Spectacles, and compound spectacle lenses, &c.
- 1244 Rose, W., 33 Russell-st., Melbourne.—Column and case. Nun's head, showing artificial teeth revolving by electricity.
- 1245 Simpson & Sons, 15 High-st., St. Kilda, Melbourne.—Baths, lavatories, water-heaters, ventilators, &c.
- 1246 Simmons, M., J. Dwyer, 116 Collins-st. E., Melbourne.—Artificial teeth, &c.
- 1247 Stevens, A., 107 Wellington-st., Windsor, Melbourne.—Artificial teeth.
- 1248 Stevens, E., 94 Collins-st., Melbourne.—Artificial teeth, &c.
- 1249 Sutton, S. N., Alverbourne Villa, Cobden-st., Kew, Melbourne.—Self-closing earth closet, self-flushing basin, &c.
- 1250 Thomas, J., Wellington-st., Newmarket, Victoria.—Apparatus for cleansing sewers and drains.
- 1251 Victor & Co., 52 Elizabeth-st. North, Melbourne.—Disinfectant, in tins and bags.
- 1252 Walker, J. H., 87 Toorak-road, Melbourne.—Surgical boots.
- 1253 Wilson, W., Madeline-st., Carlton.—Sanitary appliances.

Class 74.—Apparatus and Processes for Heating and Lighting.

- 1254 Andrews, C., Latrobe-terrace, Geelong.—"Nonpareil" cooking apparatus.
- 1255 Australasian Electric Light Power and Storage Co. Ltd., 29 Queen-street, Melbourne, owns absolutely the BRUSH, EDISON, and LANE-FOX Patents for Australasia, has the Sole License for the Swan Patents outside Victoria, and has the command of the best systems of Transformers, Accumulators, and Motors known. They secured the contract to light the whole Exhibition in the face of determined competition—English, American, and German. Their Exhibits—which include Brush, Victoria, and Edison-Hopkinson dynamos ; Brush, Pilsen, Fife-Maine and Brockie-Pell arc lamps ; Swan, Edison, and Lane-Fox incandescence lamps ; Brush motors, etc.—form probably the largest and most valuable collection ever exhibited in one building. This Company carried out in New Zealand one of the largest and most practically successful undertakings ever attempted in the transmission of power at the Phoenix Gold Mine. General Manager, Capt. F. C. ROWAN.
- 1256 Beath, S. W., Bendigo Gas Co., Sandhurst.—Gas fires for heating and laundry purposes.
- 1257 Beall, S. W., Sandhurst.—Gas stoves and heaters.
- 1258 Bode, C., 172 Exhibition-st., Melbourne.—Portable wrought kitchen ranges and stoves.

- 1259 Brandt Bros., 242 Elizabeth-st., Melbourne.—Carriage, buggy, railway, ship, and street lamps.
- 1260 Dow, J., 154 Little Collins-st., Melbourne.—Railway, ship, carriage, and other lamps.
- 1261 Gartner, W., Royal-lane, Melbourne.—Reflectors, parabolic reflectors.
- 1262 Galliers & Klaer, Inkerman-st., St. Kilda, Melbourne.—Gas-cooking and heating stoves, water-heaters, &c.
- 1263 Gough & Allkins, High-st., St. Kilda, Melbourne.—Stoves and cooking ranges.
- 1264 Harnwell & Butler, 62 Little Collins-st. E., Melbourne.—Colonial ovens, selectors' furnace frames, &c.
- 1265 Holt & Moore, 38 Victoria-st., Richmond, Melbourne.—Gas stoves and colonial ovens.
- 1266 Howard, W., & Co., Soho Iron Works, Stephen-st., Yarraville, Melbourne.—Bennie's gas-making apparatus and fittings.
- 1267 Jarvis, J. H., Lygon-st., Prince's hill, North Carlton, Melbourne.—Kitchen ranges, colonial ovens, sinks, ashpans.
- 1268 Jeans, S. E., "The Junction," St. Kilda, Melbourne.—Gas-stoves, asbestos fires, water-heaters, &c.
- 1269 Johnson, M., Junction, St. Kilda, Melbourne.—Field's patent safety lamp for mining.
- 1270 Metropolitan Gas Co., 57 Flinders-lane E., Melbourne.—Gas-stoves for heating and cooking.

THE METROPOLITAN GAS CO.

Calls special attention to their Exhibit of

FLETCHER'S COOKING STOVES,

Especially those of a large size, for Hotels, Clubs, Mansions, and Restaurants. They have been most successful where large numbers have to be catered for, and give universal satisfaction.

Every description of Stove supplied, either by PURCHASE or HIRE, on most reasonable terms.

Daily Exhibits and Instructions given in the most approved style of Cooking

THOS. VASEY, Secretary.

Office: 57 Flinders Lane East.

- 1271 Murphy, E., City-road, South Melbourne.—Self-acting ceiling ventilator.
- 1272 McLean Bros. & Rigg, 69 Elizabeth-st., Melbourne.—Ranges.
- 1273 Nicholson, J., & Son, 183 Victoria-parade, Collingwood, Melbourne.—Boilers for circulating hot water.
- 1274 Notman, J., 30 Little Collins-st., Melbourne.—Carriage, buggy, railway, and other lamps, &c.
- 1275 Parker & Co., J., Burwood-road, Hawthorn, Melbourne.—Apparatus for cooking and heating.
- 1276 Parker, J., Moorabool-st. Hill, Geelong, Victoria.—Ovens and stoves.
- 1277 Parker, J. J., sen., Post Office-place, Melbourne.—Gas stoves and ovens.
- 1278 Parker, A. J., 237 Swanston-st., Melbourne.—Ovens, stoves, and ranges.
- 1279 Phillip, —, Hope-terrace, Gipps-st., East Melbourne.—Gasifiers, lanterns, brackets, oil lamps, &c.
- 1280 Pullenger, F., 108 Flinders-lane E., Melbourne.—Kitchen ranges, ship-stoves, &c.
- 1281 Shaw, A., & Co., 13 Little Collins-st., Melbourne.—Ironclad washing-boiler furnaces, colonial ovens.
- 1282 Stott, W. C., 29 Post Office-place, Melbourne.—Copper boiler and firebrick-lined furnaces, &c.
- 1283 Train, W., & Co., Moray-st., South Melbourne.—Marble and enamelled grates, gas fittings, &c.
- 1284 Walker, A. R., 40 Latrobe-st., Melbourne.—Gas cooking and heating stoves and ovens.
- 1285 Wallis Bros. & Co., 183 Wellington-st., Collingwood, Melbourne.—Gas cooking and warming stoves, colonial and selectors' ovens.
- 1286 Walker & Gray, 5 Post Office-place W., Melbourne.—Cast-iron ovens.
- 1287 Witt, J. B., 120 Flinders-lane W., Melbourne.—Atmospheric refrigerators, ventilators, &c.

X.

Agriculture and Associated Industries.

Class 75.—Specimens of Farm Buildings and Agricultural Works.

- 1288 Beekeepers' Supply Co., 18 Franklin-st., Melbourne.—Ariarian appliances.
- 1289 Broadbent, W., Howard-st., North Melbourne.—Incubators.
- 1290 Council of Agricultural Education, Public Offices, Melbourne.—Model of a hay stack.
- 1291 Davis, B. J., Harding's-road, Coburg.—Incubators.
- 1292 Debell, C. C., S. Padglem, Box Hill, Victoria.—Self-acting incubator for rearing chickens, &c.
- 1293 Dobb, W., Lithofracteur Works, Braybrook, Victoria.—Bees, hives, and beekeeping appliances.

- 1294 Elfenbein, Torey & Rickard, 118 Lonsdale-st., Melbourne.—Incubators.
- 1295 Herbert, G. C., Heaton House, Merri Creek, Coburg, Melbourne.—Incubator and brooder.
- 1296 Morton, B. K., Melbourne.—Patent ensilage press.
- 1297 McLean Bros. & Rigg, 69 Elizabeth-st., Melbourne.—Incubators
- 1298 Smith, C. H. J., Epping-st., Kyneton, Victoria.—Appliances for honey culture.
- 1299 Thompson, J. L., C. stlemaine, Victoria.—Model of a silo, with appliances.
- 1300 West Bros., Mooroopna, Victoria.—Model of irrigation farm.

XI. Horticulture.

Class 76.—Conservatories and Horticultural Apparatus.

- 1301 **Breslin**, N., 2 Holyrood Villas, Simpson-st., East Melbourne.—Ornamental conservatory, in working order.
- 1302 **Greer & Ashburner**, 38 Little Collins-st. E., Melbourne.—Flower stands for conservatories.
- 1303 **Guilfoyle**, W. R., Botanic Gardens, Melbourne.—Collection of 114 fibres, prepared from plants growing in the Melbourne Botanic Gardens.
- 1304 **Knight**, G. W., J.P., Sandhurst.—Flowers and ornamental plants.
- 1305 **Middleton**, D., Toora Post Office, South Gippsland, Victoria.—Sunflower seed.
- 1306 **McLean Bros. & Rigg**, 69 Elizabeth-st., Melbourne.—Lawn sprinklers, rain gauges.

Class 77.—Flowers and Ornamental Plants.

- 1307 **Guilfoyle**, W. R., Botanic Gardens, Melb.—Specimens of Australasian and extra Australasian plants from which fibres were obtained.
- 1308 **Stirling**, J., Omeo.—Specimens of Australian Alps flora.

Class 79.—Fruit and Fruit Trees.

- 1309 **Drummond**, W., Horsham.—Oranges.
- 1310 **Vivian**, T., Maldon.—Dried apples.
- 1311 **Williams**, W., Oxley Flats Post Office, Wangaratta, Victoria.—Oranges, lemons, shaddocks.

Class 80.—Seeds and Saplings of Forest Trees.

- 1312 **Government Botanist**.—Todia fern, weighing 4567 lbs.; cross sections of various woods.
- 1313 **Nicholls**, R. U., & Co., 34 Armstrong-st., Ballarat, Victoria.—Tree, shrub, agricultural, vegetable, and flower seeds.

XII.

Mining Industries—Machinery and Products.

Class 82.—Apparatus and Processes of the Art of Mining and Metallurgy.

- 1314 **Adams**, A. J., Punt-rd., South Yarra.—Lead ores, &c.
- 1315 **Allan**, R., Ballarat.—Patent mining safety cage.
- 1316 **Australian Lithofracteur Co. Ltd.**, Kreb's Patent Ltd., 31 Little Collins-st., Melbourne.—Apparatus for blasting by electricity.
- THE AUSTRALIAN LITHOFRACTEUR CO. LTD.—Manufacturers of explosives of the highest strength and best quality.

LITHOFRACTEUR

DYNAMITE
PEBBLE
POWDER



BLASTING
POWDER
PELLETS.

Supplied in cartridges of any size, together with detonators. Fuse and all requisites for blasting in mines, tunnels, railway cuttings, &c.

Offices: 135 Collins-st. West, Melbourne.

15 King-st. Cheapside, London.

General Manager: T. Tolley Jones.

- 1317 **Chessel**, G., Kyneton, Victoria.—Mining safety cage.
- 1318 **Clark**, E., Herbert-st., Albert Park, Melbourne.—Mining safety-cage and hook.
- 1319 **Council of Agricultural Education**, Public Offices, Melbourne.—Iron ore.
- 1320 **Cotton**, J. E., 181 Spencer-st., West Melbourne.—Patent signal apparatus for mines.

- 1321 **Coltman**, E., corner of Latrobe and Exhibition Sts., Melbourne.—Centrifugal quartz battery and engine.

- 1322 **Ferguson**, Mephan, Engineer, Contractor, Wrought-Iron Pipe Manufacturer, &c., Leicester-st., Melbourne.

WROUGHT-IRON PIPES

are 50 per cent. cheaper, more durable, and stronger than Cast-iron Pipes. Being only one-quarter the weight, the cost of carriage, handling, and labour is very considerably reduced. A further saving is effected in lead and yarn, for Wrought-Iron Pipes are three times as long as Cast-iron, therefore having only one-third the number of joints to make. The preparation with which they are coated effectually preserves the Pipes from rust; and neither breakages or bursts ever occur. The Melbourne Water Supply Department has accepted this firm's tender for nearly 7000 tons of Wrought-Iron Pipes from 9 inches to 53 inches in diameter. Contracts have also been successfully carried out for various Water Trusts throughout the Colony.

For IRRIGATION, Wrought-iron Pipes are in great demand. The Manufacturer has several miles of piping to complete for Messrs. Chaffey Bros. These pipes are being extensively used or MINING purposes and likewise for GAS.

- 1323 **Harry**, J., Knape-st., American Gully, Sandhurst, Victoria.—Working model of a gold mine.

- 1324 **Hill**, J., 201 Bourke-st., Melbourne.—Bells, gongs, crab winch, &c.

- 1325 **Kennedy**, J., 8 Fishley-st., South Melbourne.—Model of steam-engine and crushing battery.

- 1326 **Knobel**, G. A., Arconia, via Merton, Delatite, Victoria.—Fan ventilators.

- 1327 **Long Tunnel Gold Mining Co.**, Walhalla, Victoria.—Trophy, and cases containing exhibits of battery processes, &c.

- 1328 **Muller**, sen., E., 13 Grosvenor-st., Collingwood, E. Melbourne.—Flattening mills used in preparing gold and silver for jewellery manufacture.

- 1329 M'Neill, J. R., Long Tunnel Gold Mining Co., Walhalla, Victoria.—Quartz battery lifter, with interchangeable arms.
- 1330 Nettle Bros. & Co., Barkly-st., Ballarat E., Victoria.—Iron plates perforated for quartz crushing mills.
- 1331 Perry & Hunter, Wattle-st., Sandhurst, Victoria.—Safety fuses for blasting operations.
- 1332 Rogers, R. J., Yarra Bend Asylum, Melbourne.—Model of a self-puddling machine for gold mines.
- 1333 Seitz, E., Flinders-lane, Melbourne.—Crushing machinery and amalgamator, turbine, &c.
- 1334 Serjeant, R. M., Band of Hope and Albion Consols Co., Skipton-st., Ballarat, Victoria.—Model of quartz-crushing plant, &c.
- 1335 Seymour, J. H., A. Stokes, engineer, Little Collins-st., Melbourne.—Models of patent safety cage and dovetail can for mining purposes.
- 1336 Thomson, M'Cabe & Thomson, Fitzroy-st., Fitzroy, Melbourne.—Mining hooks on windlasses.

Class 83.—Mining and Metallurgy.

- 1337 Arthur, H. A.—Model, showing counter-balance of weights of haulage ropes and cages in mining.
- 1338 Atkins, W. H., Church-st., Middle Brighton, Victoria.—Bath, fitted up.
- 1339 Atlas Co. of Engineers, Bouverie-st.—Tiffin-boring machinery.
- 1340 Atyeo, F., Lytton House, Lytton-st., Carlton, Melbourne.—Minerals, marbles, fossils.
- 1341 Beaumont, S., 228 Bourke-st. E., Melbourne.—Wirework of all descriptions.
- 1342 Bode, C., 172 Exhibition-st., Melbourne.—Wrought-iron ornamental work.
- 1343 Bowen, Wade & Beard, Lygon-st., Brunswick, and 44 Post Office-place, Melbourne.—Ornamental iron casting and copper work.
- 1344 Brache, J., Merri-st., Northcote.—Coal.
- 1345 Castlemaine District School of Mines, Castlemaine.—Cubes, showing quantity of gold raised in Castlemaine.
- 1346 Clarke, C. E., 34 Collins-st., Melbourne.—Specimens of rocks, minerals, and ores.
- 1347 Clark, A., Richardson-st., North Carlton.—Wire-rope work.
- 1348 Commercial Bank of Australia Ltd., Melbourne.—Gold-bearing quartz; rough, refined, and bar gold (*see page 82*).
- 1349 Coop, W., 41 Little Lonsdale-st. E., Melbourne.—Trophy of lead and composition pipes.
- 1350 Creswell, A. W., St. John's Vicarage, Camberwell.—Fossils, minerals, and natural history.
- 1351 Crook, Busst & Co., 13 Post Office-place E., Melbourne.—Wire mattresses, chairs, conservatory wirework, &c.
- 1352 Dangerfield & Co., Normanby Foundry, South Melbourne.—Iron, bronze, and castings.
- 1353 Dale, W., 444 Rae-st., North Fitzroy, Melbourne.—Copper, silver, lead, gold, &c.
- 1354 Davey & Fraser, Toorak-road, South Yarra.—Samples of stream and lode tin.
- 1355 Drummond, W., Horsham.—Rough hand-polished granite.
- 1356 Dunn, E. J., Roseneath, Pakington-st., Kew.—Rocks, minerals, gems, from the Ovens and South Africa.
- 1357 Earls, W. J., Warrnambool.—Iron horse-shoes.
- 1358 English, Scottish, and Australian Chartered Bank.—Exhibit (*see page 83*).
- 1359 Evett, W., corner of Clarendon and Hancock Sts., South Melbourne.—Gold and silver leaf.
- 1360 Fletcher, M. N., & Sons, Latrobe-st., Melbourne.—Stands for flowers, halls, cots, &c.
- 1361 Fletcher, J., Station-st., Carlton.—Flower stands, etc.
- 1362 Forbes, J., Maffra-st., South Melbourne.—Colonial-manufactured asphalt, pitch, naphtha.
- 1363 Fulton and Meekson, King-st.—Cast-iron circular pan, 4 ft. 6 in. x 2 ft. 6 in. deep, with internal arrangements for crushing tailings, &c.
- 1364 Grange Colliery Co. Ltd., Moe, Gippsland, Victoria.—Sample of coal.
- 1365 Greer & Ashburner, 38 Little Collins-st. E., Melbourne.—General wirework.
- 1366 Gray, Waring & Co., Prince's-bridge, Melbourne.—Zinc casks.
- 1367 Hatswell, G. W., Little Page-st., South Melbourne.—Large canary aviary.
- 1368 Hedley, J., Jennings-st., Northcote.—Gold-saving machinery.
- 1369 Hillman, J., 75 Skipton-st., Ballarat, Victoria.—Picks, hammers, drills, &c., for mines.
- 1370 Hope, A., Normanby-road, Yarra Bank, South Melbourne.—Stone-breaker.
- 1371 Hughes, T., Inglewood.—Crystals, &c.
- 1372 Hunter, W., "Archer" Galvanising Works, City-road, South Melbourne.—Galvanised goods.
- 1373 Hughes & Harvey, 144 Lonsdale-st. E., Melbourne.—Japan, tin, galvanised, and copper ware.
- 1374 Humble and Nicholson, Vulcan Foundry, Geelong.—Earth scoop.
- 1375 Jacques Bros., Victorian Iron Works, Bridge-road, Richmond.—Machines for the disintegration of stone, ore, or quartz, in motion.
- 1376 Jenkins & Law, 161 Exhibition-st., Melbourne.—Iron stands, trophies, &c.
- 1377 Jones & Sons Ltd., Paterson-st., Collingwood, Melbourne.—Asphalt and tar paving.
- 1378 Johnson, M., Junction, St. Kilda, Melbourne.—Apparatus used in metallurgy.
- 1379 Kelly, W., Bolinda Vale, Lancefield Junction, Victoria.—Horse-shoes, &c.
- 1380 Keep, E., & Co., 35 Elizabeth-st., Melbourne.—Galvanised barbed wire for fencing.
- 1381 Kitchingman, E. L., Wellington-st., Collingwood.—Mineral ores.
- 1382 Lancaster, J., 209 Gertrude-st., Fitzroy.—Horse-shoes.
- 1383 Langland's Foundry, Yarra Bank.—Stamping battery, &c.
- 1384 Langtree, C. W., Secretary for Mines and Water Supply, Public Offices, Melbourne.—Geological and mineral collections and maps, &c.
- 1385 Lanyon, Bryant & Co., 4 Little Collins-st. E., Melbourne.—Manufactures from sheet copper, nickel, and in.
- 1386 Levi, N., New Victoria Coal Co., Flinders-st. E., Melbourne.—Coal from Cape Paterson.
- 1387 London Chartered Bank of Australia.—Exhibit (*see page 84*).
- 1388 Long Tunnel Gold Mining Co., Walhalla, Victoria.—Trophy and minerals.



THE COMMERCIAL BANK OF AUSTRALIA LIMITED

(ESTABLISHED 1866)

HAS an AUTHORISED CAPITAL of £3,000,000, a SUBSCRIBED CAPITAL of £2,500,000, a PAID-UP CAPITAL of £1,000,000, and a RESERVE FUND and UNDIVIDED PROFITS exceeding £650,000.

The DIRECTORS of the Bank are Alderman THOMAS MOUBRAY, Esq., J.P. (Chairman); G. S. COPPIN, Esq., J.P., M.L.A.; Hon. C. J. JENNER, J.P.; JAMES MASON, Esq., J.P.; and GEORGE MEARES, Esq., J.P., C.M.G. The General Manager of the Bank is HENRY GILES TURNER, J.P.; and the Acting General Manager, J. M'CUTCHEON, J.P.

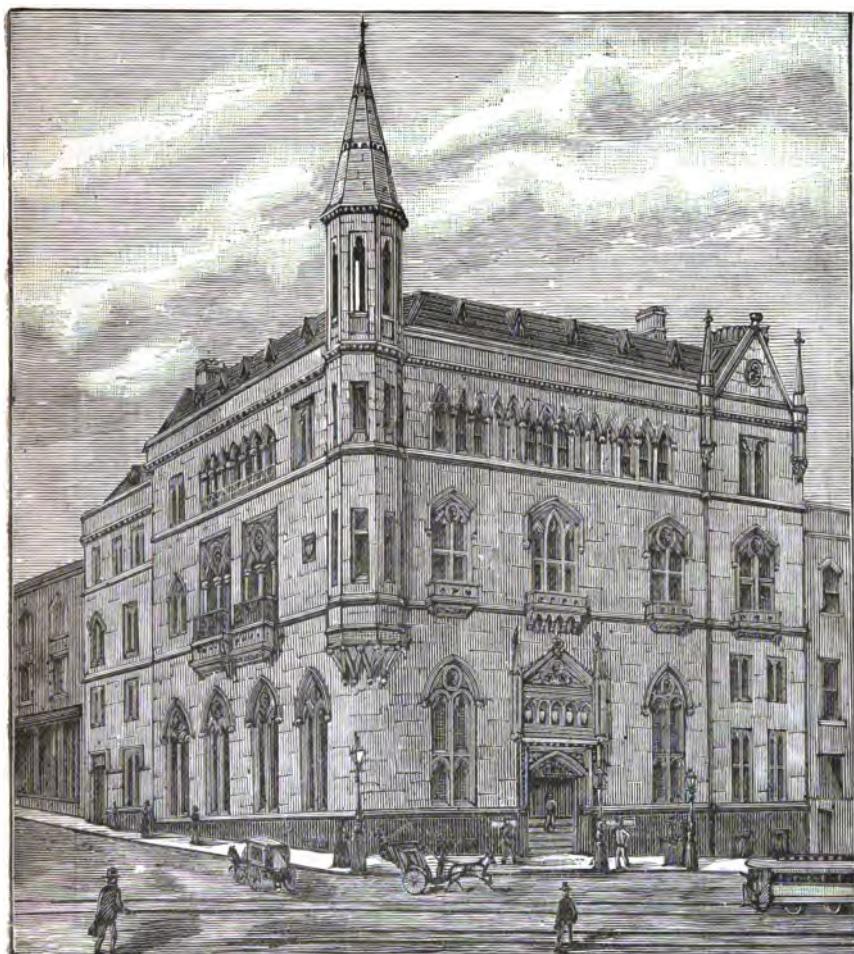
The HEAD OFFICE OF THE BANK is at 30 COLLINS ST. WEST, MELBOURNE; a WESTERN BRANCH is open at the Corner of KING and COLLINS STREETS; while Sixty-seven BRANCHES and AGENCIES have been established in the SUBURBS OF MELBOURNE and the principal centres of Trade and Population throughout VICTORIA.

The Bank is also directly represented in the various Capitals of the AUSTRALIAN COLONIES, having a Principal Office at 122 PITT STREET, SYDNEY, N.S.W., with a Branch at Broken Hill; a Principal Office at the TOWN HALL, KING WILLIAM STREET, ADELAIDE, with Branches at Rundle Street, Port Adelaide, Mount Gambier, Mobilong, Callington, and Narra-coorte; a Principal Office at 130 QUEEN STREET, BRISBANE, QUEENSLAND; a Principal Office at ST. GEORGE'S TERRACE, PERTH, W.A.; and a Principal Office at PALMERSTON (PORT DARWIN), NORTHERN TERRITORY.

The Bank is also directly represented in GREAT BRITAIN, having an OFFICE at BISHOPS-GATE STREET WITHIN, Corner of LEADENHALL STREET, LONDON, E.C., and a DEPOSIT AGENCY at 11 SOUTH CHARLOTTE STREET, EDINBURGH.

In addition to its direct representation in the Australian Colonies and Great Britain, the Bank has Agents and Correspondents in Tasmania, Fiji, and New Zealand; in San Francisco, Chicago, New York, Boston, Philadelphia, and Baltimore; in England, Scotland, Ireland, France, Germany, India, China, Japan, Ceylon, Straits Settlements, and South Africa.

The Bank grants Letters of Credit and issues Drafts upon its Branches and Agencies in the Colonies and Europe, receives Money on Deposit at Call or for Fixed Periods, Negotiates or Collects Bills, and generally undertakes all descriptions of Banking and Exchange business.



ENGLISH, SCOTTISH, AND AUSTRALIAN CHARTERED BANK,

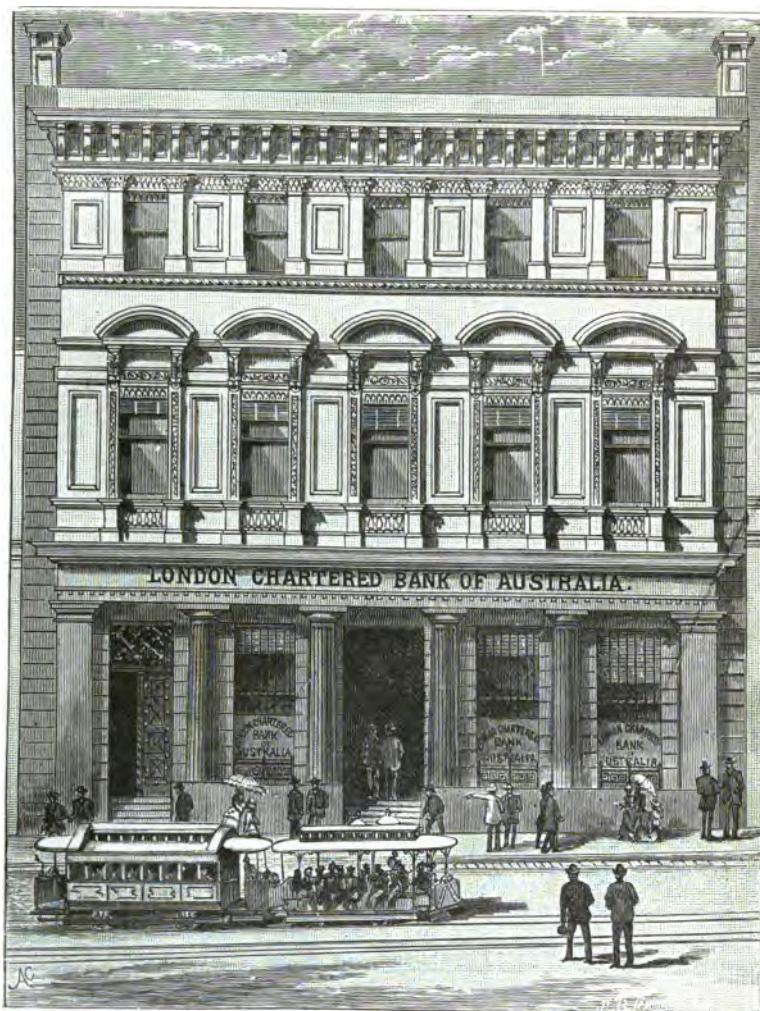
INCORPORATED BY ROYAL CHARTER 1852.

CAPITAL, with power to increase to £1,500,000	-	-	£720,000
RESERVED LIABILITY OF SHAREHOLDERS	-	-	720,000
RESERVE FUND	-	-	220,000
			£1,660,000

LONDON OFFICE: 73 CORNHILL, E.C.

Branches:

Colonial Inspector and General Manager—THE HON. SIR GEORGE VERDON, K.C.M.G., C.B.
 Victoria—Melbourne. New South Wales—Sydney. South Australia—Adelaide.
 Agencies in the principal Cities of the United Kingdom, the Continent, and the East.



THE

LONDON CHARTERED BANK OF AUSTRALIA,
INCORPORATED BY ROYAL CHARTER, 1852.

AUTHORISED CAPITAL, TWO MILLIONS STERLING.

Paid-up Capital and Reserves	-	-	-	£1,189,000
Reserve Liability of Proprietors	-	-	-	1,000,000
<hr/>				£2,189,000

389 McLean Bros. & Rigg, 69 Elizabeth-st., Melbourne.—Cone-head nails, coat of arms.

LIST OF EXHIBITORS AND EXHIBITS REPRESENTED

AT

THE CENTENNIAL INTERNATIONAL EXHIBITION, MELBOURNE,

BY

MCLEAN BROS. & RIGG LIMITED, MELBOURNE.

BRITISH COURT.

ANDREWS & Co., J. H.	Sheffield	Steel Springs, &c.
ALLEN & Co., W. H.	London	Centrifugal Pumps.
ANDREW & Co., J. E. H.	Sheffield	Stockport Gas Engines.
BRITANNIA Co.	Colchester	Lathes.
BROOKS, JOHN	Stowbridge	Blacksmiths' Tools and Anvils.
BRADBURY & HINCHCLIFFE	Manchester	Cordials Machinery.
BUEYS & Co.	Sheffield	Engineers' Tools.
BROWN, MARSHALL & Co.	Birmingham	Railway Carriages.
BURGON & BALL	Sheffield	Steel and Sheep Shears.
BROTHERTON & SON LTD., JOHN	Wolverhampton	Tube and Pipe Manufacturers.
BOARDMAN, GLOSSOP & Co.	Sheffield	Electro-plated Ware.
BRADLEY & CRAVEN	Wakefield	Brick and Pipe Making Machinery.
CHATWIN, THOS.	Birmingham	Engineers' Tools.
CHEAVIN, GEO.	Boston	Filters.
CORDES & CO. LTD.	Newport	Nails.
CADMAN, T. R.	Sheffield	Cutlery.
CONSEYTT IRON Co.	Blackhill	Iron.
ELWELL, EDWARD	Wednesbury	Edge Tools.
ELLET BROS.	Birmingham	Ammunition.
FARMER & SON, SIR JAS.	Manchester	Model Dryer & Evaporating Mach.
GREEN & SON LTD., T.	London	Sausage Machinery.
GOLDSWORTHY & SONS	Manchester	Emery Cloth.
HENDERSON & SONS	Dundee	Belting.
HARCOURT & SON, R. & C.	Birmingham	Brass Foundry.
HIRD, DAWSON & HARDY	Lowmoor Iron Co. Bradford	Iron.
HALL & SON, JOHN	London	Explosives.
IRONMONGER & SON, T.	Wolverhampton	Hemp and Flax Merchants.
JONES & Co., F.	London	Silicate Cotton.
KELL & Co., R.	Newcastle	Grindstones.
KIRKSTALL FORGE Co.	Leeds	Bar Iron, Patent Shafting, Axles, &c.
KNOWLES, GEO.	London	Garden Tools.
LYNDON, W. A.	Birmingham	Edge Tools.
LEACH, FLOWERS & Co.	Neath	Tin Plates.
MARSHALL, SONS & CO. LTD.	Gainsborough	Steam Engines & Threshing Machines.
MORRISON, INGRAM & Co.	Manchester	Sanitary Ware.
MILNER'S SAFE Co.	Liverpool	Strong Rooms and Safes
NOBEL'S EXPLOSIVES Co.	Glasgow	Explosives.
NICOLLS & Co., G. H.	Dundee	Mangles.
POTOSI SILVER Co.	Birmingham	Electro-plated Ware.
PICKERING & SONS	Sheffield	Plate Polish.
PATENT ENAMEL Co.	Birmingham	Enamelled Iron Signs.
RODGERS & SONS LTD.	Sheffield	Cutlery.
RATCLIFFE, EDWARD	Birmingham	Chandeliers, &c.
RABONE & SON, J.	Birmingham	Carpenters' Tools.
SCOTT, SON & Co., W.	Birmingham	Sporting Requisites.
SOREY & SON, R.	Sheffield	Cutlery and Edge Tools.
STAINFORTH, WM. THOS.	Sheffield	Cutlery.
SMITH, T. & W.	Newcastle-upon-Tyne	Enslag Presses and Steel Ropes.
WILKINSON & SONS, T.	Birmingham	Electro-plated Ware.
YATES, JAS.	Birmingham	Beer Engines and Fittings.
WRIGHT, JNO.	Birmingham	Cricketing Materials.
WRIGHT, JNO.	Birmingham	Fenders, &c.
WARSOFF & SON, B.	London	Cricketing Materials.

AMERICAN COURT.

DELL MC GUIRE MANUFACT'ING Co.	Richmond, Indiana	Lawn Mowers.
DAVIS SEWING MACHINE Co.	Watertown, New York	Sewing Machines.
DERBY & BALL	Bellows Falls	Woodware, Scythe Handles, &c.
ECONOMIST PLow Co.	South Bend, Indiana	Farming Implements.
FAIRBANKS & CO. LTD.	New York	Scales and Weighbridges.
FRAZER LUBRICATING Co.	New York	Axle Grease.
HIRAM HOLT MANUFACTURING Co.	East Wilton	Lightning Hay Knives.
HENRY CHENEY HAMMER Co.	New York	Hammers.
MCCORMICK HARV'TG. MACH. Co.	Chicago	Reapers, Binders, and Mowers.
MYERS, ERWIN.	Philadelphia	Farmers' Tools.
MOLINE PLow Co.	Moline, Ill.	Farming Implements.
TURNER, DAY & WOOLWORTH MANUFACTURING Co.	Louisville, Ky.	Woodware.

MCLEAN BROS. & RIGG LIMITED, MELBOURNE.

- 1390 Mitchell, W., 72 Charles-st., Prahran, Melbourne.—Slate, rough and polished.
- 1391 Moe Coal Mining Co. Ltd., 99 Collins-st. W., Melbourne.—Household and steam coal.
- 1392 M'Illwraith, J., 169 Little Collins-st. E., Melbourne.—Sheet lead, compo, and gas-pipes, &c.
- 1393 M'Lean, A., King-st.—Patent amalgamator.
- 1394 M'Neill, J. R., Gippsland.—Patent gold amalgamator and concentrating pan.
- 1395 Narracan Valley Coal Mining Co. Ltd., 99 Collins-st., Melbourne.—Coal.
- 1396 New Bendigo Quartz Mining Co., St. Arnaud.—Auriferous quartz.
- 1397 Nicholas, H. B., Senior Inspector of Mines, Castlemaine, Victoria.—Samples from quartz and alluvial mines.
- 1398 Patent Victoria Hydraulic Free-stone Co., St. James's-buildings, William-st., Melb.—Underground conduit for telephone wires.
- 1399 Pemberton, F., Beechworth.—Horse-shoes, picks, etc.
- 1400 Percydale Slate Co. Ltd., Church-st., off Little Collins-st., Melbourne.—Plain and wrought roofing slates.
- 1401 Pender, J., Tinning-st., Brunswick, Melbourne.—Bright finished horse-shoe nails.
- 1402 Phillips, M'Walter & Chambers, Victoria Foundry, Melbourne.—Crucible steel and ornamental iron castings or machinery.
- 1403 Phillips, C. E., Gipps-st., Melbourne.—Gasoliers, lanterns, gas brackets, and other brasswork.
- 1404 Purcell, P., Seymour.—Felspar from reef.
- 1405 Queen's Birthday Co., Dunolly, Victoria.—Quartz gold specimens.
- 1406 Rampant, A. A., St. Vincent-place, Albert Park.—Victorian minerals.
- 1407 Rogers, R. J., Blacksmith, &c., Yarra Bend Asylum.—Patent revolving self-puddling machine for gold mines.
- 1408 Rollo, J., Yarragon, Victoria.—Specimens of Victorian coal.
- 1409 Rutherford, J., Smith-st., Fitzroy.—Fancy work in horse-shoes.
- 1410 Sergeant, R. M., Ballarat.—Model of quartz, crushing plant.
- 1411 School of Mines and Industries, Bendigo, Sandhurst.—Gilded cubes, showing amount of gold raised by twenty-eight companies.
- 1412 Seitz, E., Flinders-lane, Melbourne.—Ore-crushing machinery and amalgamator, with a few small turbines and plans thereof.
- 1413 Selle, C. H., 102 Canning-st., Carlton, Melbourne.—Pewter goods, and Australian tin castings.
- 1414 Shaw, A., & Co., 13 Little Collins-st., Melbourne.—Stamped, turned, and general tinware, &c.
- 1415 Sloan, J. H., Molesworth, Victoria.—Cobalt ore.
- 1416 Spence, W. B., & Co., Kara Kara Slate Quarries, Pyrenees Ranges, near Avoca, Victoria.—Slate in the rough, also manufactured.
- 1417 Stawell and Grampians Freestone Co. Ltd., Patrick-st., Stawell, Victoria.—Block of dressed freestone.
- 1418 Stirling, J., F.G.S., Omeo.—Rocks of the Australian Alps arranged.
- 1419 Stott, W. C., Post Office-place, Melbourne.—Copper boilers.
- 1420 Sydenham Quartz Gold Mining Co. Ltd., Dunolly, Victoria.—Gold-bearing quartz and antimony.
- 1421 Tar Paving Co., 54 Elizabeth-st., Melbourne.—Tar paving in all stages.
- 1422 Thompson, F. T., Burwood-road, Lower Hawthorn, near Melbourne.—Corrugated galvanised tanks.
- 1423 Victoria Steel Foundry Company Limited, Victoria-st., Carlton, supply Crucible Steel Castings for Machinery of all kinds, Mill Gearing (bevel and spur), Worm Wheels and Pinions, Boring Drills and Cranks, Spanners, Truck Wheels for Mines and for Railway Contractors, Turntable Discs, Ploughshares, Hammer Blocks, Anvil Blocks, Special Castings for Brick-making Plant. They are making a really splendid article, and are supplying the Victorian Railways, Harbour Trust, Melbourne Tramway Company, and the largest firm of Engineers in the Colonies.
- 1424 Walker, F. & F., 12 The Exchange, Melbourne.—Alluvial tin and gold, with small precious stones.
- 1425 Walker & Gray, 5 Post Office-place W., Melbourne.—Ornamental castings, manufactured cast-iron fencing, &c.
- 1426 Walton, Mayne & Co., Elizabeth-st., Melbourne.—Galvanised ware.
- 1427 Watson and Denny, Market-st., Melbourne.—Pan for grinding quartz tailings and amalgamating gold and silver with quicksilver.
- 1428 Wightman & Son, Barry's Reef, Blackwood, Victoria.—Horseshoes.
- 1429 Wright, P., Tallangatta.—Mineral products.

ADDENDA TO CLASSES 7.1 AND 7.2.

The following Exhibits were received too late for insertion in their proper Classes:—

[This list consists of wines, beers, spirits, and aerated and mineral waters, for competition, in the Exhibition cellars.]

- 1 Adamson, T., Heidelberg.—Victorian wines.
- 2 Adams, P., Wodonga.—Victorian wines.
- 3 Artillery Brewery, Williamstown.—Victorian beer.
- 4 Best, H., Concongella Vineyard, Great Western.—Victorian wines.
- 5 Blayney, T., Nagambie.—Victorian wines
- 6 Brensing, E., Nagambie.—Victorian wines.
- 7 Bruce, W., & Sons, Bridge-st., Sandhurst.—Beer.
- 8 Bruhn, A., Emu Creek, Bendigo.—Victorian wines.
- 9 Buchanan, C., Vine Bank, Ondit.—Victorian wines.
- 10 Chateau Yering Wine Co., 32 Eastern Market, Bourke-st. East.—Victorian wines.
- 11 Cohn Bros., Victoria Brewery, Sandhurst.—Beer.
- 12 Costello, P. H., Mount Hooghly.—Victorian wines.
- 13 Darwiniza, I., "Excelsior," Mooroopna.—Victorian wines.
- 14 De Castella & Rowan, Collins-st. West, Melbourne.—Victorian wines.
- 15 De Pury, G., Yeringberg, Yering.—Victorian wines.
- 16 Dickins, R., & Co., Market-st., Melbourne.—Aerated waters.
- 17 Dickson, W., & Sons, Barnawartha.—Victorian wines.
- 18 Dixon, P. G., Rosslyn-st., Melbourne.—Aerated waters, etc.
- 19 Ducommun, E., Nagambie.—Victorian wines.
- 20 Dyason & Son, Cambridge-st., Collingwood.—Aerated waters.
- 21 Eady & Co., North-st., Richmond.—Aerated waters, etc.
- 22 Egli, F., Tahbilk.—Victorian wines.
- 23 Elliott's Brewery Co., High-st., Sandhurst.—Ales.
- 24 Faux, F., Dunolly.—Victorian wines.
- 25 Fitzgerald's Brewery, South Melbourne.—Beer.
- 26 Fox, A. W., Emu Creek, Bendigo.—Victorian wines.
- 27 Fulton, E. G., & Co., Collins-st. East, Melbourne.—Victorian wines.
- 28 Fuller, T., Inverleigh.—Victorian wines.
- 29 Gemmell, J., Fairlawn, Wooragee.—Victorian wines.
- 30 Gianetti, B., Bealiba.—Victorian wines.
- 31 Giovanoni, D., Spring Creek, Hepburn.—Victorian wines.
- 32 Grant, J., Craigellachie, Elmhurst.—Victorian wines.
- 33 Grosse, F., Collins-st. West, Melbourne.—Victorian wines.
- 34 Haig, T., Bogong, Buckworth.—Victorian wines.
- 35 Hanlon, L., El Dorado Vineyard, Kotupna,—Victorian wines.
- 36 Headday, E. & W. W., St. Ethel's Vineyard, Great Western.—Victorian wines.
- 37 Jack, R., Rutherglen.—Victorian wines.
- 38 Johnston, G. A., Queen-st., Melbourne.—Victorian wines.
- 39 Jones, W., Wedderburn.—Victorian wines.
- 40 Kahland, J., King-st., Sandhurst.—Victorian wines.
- 41 King, D., Rutherglen.—Victorian wines.
- 42 Kurrie, R. F., Sunbury.—Victorian wines.
- 43 Levin, L., Lake Vineyard, Wahgunyah.—Victorian wines.
- 44 Logan, D., Rutherglen.—Victorian wines.
- 45 Metropolitan Brewery Co., Latrobe-st. West, Melbourne.—Ales.
- 46 Meyer, H., Mandurang.—Victorian wines.
- 47 Mueller, Dr. A., Yackandandah.—Victorian wines.
- 48 M'Gregor & Long, Gipps-st., Collingwood.—Aerated water, etc.
- 49 Neilson, J., Rutherglen.—Victorian wines.
- 50 O'Donnell, R., & Co., High-st., Prahran.—Aerated waters, etc.
- 51 O'Sullivan, Lonigan & Co., Gore-st., Fitzroy.—Aerated waters.
- 52 Pearce, J., Wahgunyah.—Victorian wines.
- 53 Prentice, A., Rutherglen.—Victorian wines.
- 54 Reau, C., Medoc Vineyard, Wahgunyah.—Victorian wines.
- 55 Renou, P., River Goulburn Brewery, Seymour.—Ales.
- 56 Ritchie Bros., Murgheboluc, near Geelong.—Victorian wines.
- 57 Rolleri, G., Hepburn.—Victorian wines.
- 58 Ross, C., Phoenix Distillery, Port Melbourne.—Spirits.
- 59 Rowland & Son, Duke-st., East Collingwood.—Aerated waters.
- 60 Rowley, J. S., Timor-st., Warrnambool.—Aerated waters.
- 61 Schröder, E., Imperial Vineyard, Chinaman's Creek, near Castlemaine.—Victorian wines.
- 62 Schmidt, F., Berwick.—Victorian wines.
- 63 Seeliger, E., Wimmera Brewery, Horsham.—Ales.
- 64 Shaw, F. K., Goornong.—Victorian wines.
- 65 Sheepway & Co., G.P.O., Melbourne.—Aerated waters, etc.
- 66 Skynne, G., Great Western.—Victorian wines.
- 67 Smith, D., Beausejour Vineyard, Eversley.—Victorian wines.
- 68 Stewart & M'Donald, Murray Wine Cellars, Market-st., Melbourne.—Victorian wines.
- 69 Stocker, H., & Sons, Rutherglen.—Victorian wines.
- 70 Trotman, J., Kurracar.—Victorian wines.
- 71 Trinkhaus, A., Muckleford.—Victorian wines.
- 72 Victoria Brewing and Malting Co., Victoria Parade, East Melbourne.—Spirits.
- 73 Webster R., Tuilleries Vineyard, Wahgunyah.—Victorian wines.

INTRODUCTION TO THE SOUTH AUSTRALIAN COURT.

ALTHOUGH, perhaps, the corporate life of South Australia is associated with fewer exciting incidents in the course of its development than some of the other Australian dependencies, the progress of the colony has been none the less satisfactory. A population which in the year 1856 only amounted to 546 has risen in fifty-one years to 317,446. In the forty years between 1846 and 1886 the imports of the colony increased from £330,099 to £4,852,750, and her exports from £312,888 to £4,489,008. In the interval of twenty years between 1866 and 1886 her banking deposits advanced from £1,401,565 to £4,962,065. The banking assets and discount business for 1887 show the effects of the serious bank failure which occurred in 1886, although, on the whole, the position of the banks is shown to be sound. Their average liabilities amounted to £5,712,295, compared with £5,474,662 in 1886. On the other hand, their total assets fell below the figures of the previous year's return, being £10,412,042 in 1887, against £11,446,883 in 1886. The protracted depressions experienced by the colony in consequence are reflected in the transactions of the savings banks, which show only 7605 new accounts opened in 1886-7, against 9282 in 1885-6. Similarly, the amount deposited was only £797,704, against £958,819 in the preceding year.

COMMERCE.—It is significant of the transition through which the trade of the colony is passing, that the value of the imports from the United Kingdom and from foreign states has suddenly declined during the past two years, while the value of imports from the Australian colonies and other British possessions materially increased; but whether this movement is temporary or permanent remains at present a matter of conjecture. Imports from the United Kingdom during the past three years were 44·1 per cent.; from the Australian colonies, 45·1 per cent.; and from all other British colonies, 6·5 per cent. of the whole. It also appears that the imports from Victoria have heavily receded, and that those from New South Wales are greatly augmented during the last two years. The greatest import values in any one year was in 1882, when the total was £6,707,788. In 1885 the imports from the United Kingdom amounted to £2,781,460; in 1886, to £1,973,647; and in 1887, to £1,958,436. From Victoria in 1885 the returns were £1,007,032; in 1886, £775,044; and in 1887, £810,443. From New South Wales the imported values for the same three periods were £575,160, £1,366,990, and £1,609,440 respectively. The imports from Queensland also show a steadily advancing ratio. There is a tendency for the trade with India to increase. Among foreign states the volume of commerce increases notably with Germany, and declines with the United States.

Coming to the staple exports from the ports of the colony, the annual value of these is necessarily to large extent dependent on the seasons, and, consequently, upon the crops. The greatest export value in any one year was £6,623,704 in 1884. The exportation of staple products and manufactures is almost invariably much greater in summer than in winter, the greater portion of wool and surplus cereals being then ready for shipment. The total value of exports for 1887 reached £3,948,561, which is £1,747,732 less than imports. As might be expected, the largest proportion of exports went to the parent country, the amount shipped thither being £110,000 above the total of 1886, but about a million and a quarter sterling under the value sent in 1885. It is noteworthy that, side by side with a considerable falling off in imports from Victoria and Queensland in the last three years, the exports from South Australia to these colonies show signs of continuous improvement. Allowing for occasional fluctuations, the pastoral interest has taken the lead from an early period in colonial history, and in the past year that rule has been maintained. An improvement is noticeable in exports of dairy produce, with manufactured and mineral productions. The best customers of the colony for surplus breadstuffs are the United Kingdom, New South Wales, and Queensland, although these articles find their way to Victoria, Western Australia, Tasmania, New Zealand, Mauritius, Seychelles, Natal, Cape Colony, Singapore, Hong Kong, France, Germany, Java, New Caledonia, and Belgium.

RAILWAYS.—Since the first locomotive line was opened, between the city and Port Adelaide in April, 1856, until the end of 1887, the length of Government lines completed and open for traffic was 1420 miles, 209 miles being provided during the last twelvemonth. The total receipts of the railways since their opening have amounted to £6,946,749, and the working expenses to £5,137,138.

AGRICULTURE.—According to the closest estimate, 1,950,000 acres were under wheat in 1887, which is 20,000 acres less than in the year preceding, the general average, worked out at 9 $\frac{1}{2}$ bushels per acre, giving a total yield of 19,012,500 bushels, 3,732,500 bushels being the surplus available for export, which is equivalent to 410,000 shipping tons. This is a larger amount than was previously exported in any single year, and is nearly double the wheat export of the two previous seasons, being 90,000 tons more than was exported in 1885. The yield last year varied widely throughout the country, according to the rainfall of particular districts. When the specimens of barley, oats, maize, beans, peas, and millet now exhibited are viewed

in comparison with the enormous area of territory included within the limits of South Australia, which is still uncultivated and uninhabited, the inference drawn is that the colony is only in its earliest infancy.

STOCK.—When the colony was founded, a few Merino sheep were landed from Germany, and occasional small shipments of the same description were made from Tasmania, New South Wales, and Port Phillip. Half a century afterwards the sheep had expanded to 7,000,000, and the value of wool exports to £2,000,000. The wool exported in the Jubilee year amounted to 44,792,613 lbs. The careful breeding of the Merino sheep has been carried on very successfully by the leading squatters, and they have attained a high position at the principal shows in the colonies. It is not unusual for stud rams to cut fleeces weighing over 18 lbs. of good Merino wool. Some of the largest are found in the north-east division, including Paratoo. This station, with its outstations, has a total area of 3500 miles, or 2,240,000 acres, having an average carrying capacity of one sheep to 10 acres.

FRUITS.—In view of the successes which attended the experimental shipments of apples, pears, and oranges to London during the Exhibition of 1886, it is confidently anticipated that the vast area of uncultivated lands lying within easy distance of South Australian shipping ports will rapidly be planted with fruit-trees, the produce of which, a few years hence, can be delivered in London, at a period of the year when no other fresh fruit of a similar kind is available, provided the fruit is properly selected, packed, and shipped in cool chambers. An average price of 25s. per case, it is reported, may be realised.

The dessert raisins, Zante currants, almonds, and Sultana raisins shown by South Australian exhibitors compare favourably with the higher qualities usually imported into England from the Mediterranean and the Cape of Good Hope. At the present time the production of currants meets only about a sixtieth part of the requirements of the colony, and there is no reason why imports of this article should not merely be superseded, but a supply grown in sufficient quantities for general export.

INDUSTRIAL FIBRES.—Two indigenous fibrous substances, known as Mullet's fibre and porcupine grass, have been successfully manufactured into paper. They are found to yield 34·4 and 36·5 per cent. of cellulose respectively. The substance first-named can be "pulped" by the process of boiling at 40 lbs. pressure with basic sulphite of soda (20 per cent.). The paper manufactured from Mullet's fibre has given satisfaction to British experts. The porcupine grass has been found on investigation to be nearly allied to the well-known Esparto grass, and has been "pulped" on the usual plan of treating the Spanish material, and the paper-making qualities of the second substance, as well as the first, have been fully demonstrated.

WATTLE BARK.—The culture and export of this product gives promise of importance. During the last ten years the value of it exported has amounted to £421,078. In 1886 the shipments amounted to £51,176. Leather tanned with this agent is not exhibited for the first time. Large quantities of the bark (*Acacia mimosae*) are sent to England. The black wattle bark is the richest in tanning properties. The manufacture of extract from both the wood and bark has been commenced, and is expected to economise freight on a long sea voyage, as a substitute for the bark. The skilful combination of this valuable tanning agent with English oak bark, moreover, has enabled experienced tanners to produce sole leather little inferior to that made from pure oak bark in half the time, and at a material reduction of the cost of tanning compared with that of the old system.

THE OLIVE.—South Australia as far back as 1844 received from Marseilles fifty-one olive plants, comprising five choice varieties, and planted them. The oil expressed from them received "honourable mention" at the Exhibition of 1851, and since that incentive was given to its cultivation, a gradual advance has been made in its extension. The olive oil of the colony has uniformly gained high prizes at International and Intercolonial Exhibitions in different quarters. In addition to possessing olive stocks of reputation secured from Malaga, Gibraltar, Lisbon, Cannes, Nice, Florence, and Bari, the colony has imported skilled French pruners, whose teachings cannot but prove advantageous in the future production of this fruit. At present olive oil is sold at about 10s. per gallon, and most of what is made is distributed in Australia.

SILK.—An expert, after having this product thrown and manufactured into a series of handkerchiefs in England, reported as follows:—"The silk reeled at Leek from Australian cocoons is, on the whole, very satisfactory. As a winding silk it is superior to China silk, and about equal to a good Japan or Italian. . . . Australia need not trouble itself with cocoon reeling at all, but should export the cocoons as raw produce to the reeling districts of Bengal, where they can either be reeled on commission or, what is better, bought outright. I have it on the authority of the extensive firm of Messrs. R. Watson and Co., through their Mr. Morey, who has the management and control of their numerous filatures in the Rajshai district, where a considerable proportion of the population is employed in cocoon-reeling, that it would be a very great help indeed if they could be supplied with cocoons to keep their factories or filatures going all the year round, instead of about six months only out of the twelve as at present. Mr. Morey informed me that their factories could take all the cocoons which the colonies could produce for some time, as the very best

qualities of silk could be reeled from them. As regards the value of cocoons reared in the colonies, at the present prices of raw silk these are:—Italian, 22s. 6d. per lb.; China, 15s. 6d.; Bengal, 15s.; French, 22s. 6d.; Japan, 19s. 6d. per lb. The reeling would not be less than 2s. 6d. per lb. in the dried state. The best arrangement would probably be to pay so much per lb. for the silk, allowing the reelers a fair profit; but, at any rate, there would always be a fair market for the cocoons, the chrysalides having been first killed and the cocoons well dried before packing. The yield of raw silk from 1 lb. of cocoons is about $1\frac{1}{2}$ ozs."

This information, coming from so distinguished an authority, merits the attention of all the Australian colonies. As regards the food of the silkworm, Baron Von Mueller makes the following useful observations:—"Superior varieties of mulberry can be grafted with ease on the ordinary stock. The raising of mulberry trees in California has recently assumed enormous dimensions, where between seven and eight millions have been planted since 1870. The process of rearing the silkworm is simple, and involves no laborious exertions. The cocoons, after they have been properly steamed, dried, and pressed, readily find purchasers in Europe, the price ranging from 3s. to 6s. per lb. The eggs of the silk moth sell at from 16s. to £2 per oz. In 1870 Japan had to provide 2,000,000 of ozs. of silk ova for Europe, where the worms had extensively fallen victims to disease. As an example of the profit to be realised, a Californian fact may be cited, according to which £700 was the clear gain from 3½ acres, the working expenses having been £93."

The Commissioner of Agriculture of the United States has estimated that, under ordinary circumstances, an acre should support from 700 to 1000 mulberry trees, producing when four years old 5000 lbs. of leaves fit for food. On this quantity of leaves can be reared 140,000 worms, from which ova at a net profit ranging from £80 to £240 an acre will be obtained by the work of one person.

Mr. C. Brady, of Sydney, thinks the probable proceeds of silk culture to be from £60 to £150 per acre. The discrepancies in calculations of this kind are explained by differences in soil, treatment, and rate of labour.

BEE-KEEPING.—Modern appliances for agriculture having remarkably improved of recent years, the industry has taken a firm place among the rural employments of the people. One firm commenced with 27 hives, increased their number to 109, and in a single season obtained 14,300 lbs., or nearly 6½ tons, of honey. This success has had the effect of inducing others to engage in the enterprise.

MANUFACTURES.—Among prominent industries is one springing out of the growth of wool, consisting of the manufacture of tweeds, lately started at Labelthal. At present the production at that establishment is 1400 yards of cloth per week, the whole of which is readily disposed of to Adelaide cloth-merchants. Another important branch of business closely allied to the pastoral industry is fellmongery, or wool-scouring. It is estimated that 20,000 to 25,000 bales of wool are annually purchased by local fellmongers, sorted, scoured, and shipped to London for resale, or to be supplied direct to the manufacturer. There are also several large tanneries in which not only the skins and hides of this colony are converted to excellent leather, but considerable quantities of the same raw material from the adjacent colonies.

In a special degree the farmer has been indebted to the inventive genius of the local machinist for the production of implements and machines. It was only by reason of the invention of the Ridley stripper—or, as it is better known outside the colony, the Adelaide stripper—that wheat can be grown profitably in South Australia. Without this machine it would have been impossible for the farmer to have gathered in the grain from the immense area of ground which he cultivates. To those acquainted with the slower methods of harvesting in older countries, the value of this machine will be apparent when they are told that one man can reap and thresh 10 acres of wheat in a day by using the stripper.

Many factories exist for the production of agricultural machines and implements. To some small shops the colony is indebted for stump-jumping ploughs (Mulleniser's); and efficient grubbing machines, winnowing and mowing machines, ploughs, scarifiers, harrows, &c., are all made in large numbers, and adapted to the new conditions under which many of the farming operations of the colony are carried on.

FISH AS A FOOD PRODUCT.—Analyses have been made of fish recently found in South Australian markets, under direction of the South Australian Commissioners appointed in connection with the Indian and Colonial Exhibition, in order to compare them with the fish of European waters. The amount of nitrogenous compounds in snook, mullet, flathead, tommy rough, schnapper, garfish, salmon, sole, Murray cod, and silver whiting, ranges from 17·50 to 22·75 per cent.

Mining.—Copper has proved a vast source of wealth to South Australia, although for the last few years the unprecedentedly low price which has ruled for this commodity has caused stagnation in its production. Not many months ago copper was quoted at £40 per ton, and within a short interval it has bounded up to £85 a ton, the latest quotation for Chili bars being £4 15s. lower than that figure. In 1857 this metal found a firm market at £138 per ton; in 1886, at £119, with a minimum price for the year of £89 per ton; in 1872 the maximum price was again £119, and the minimum £68; in 1875 the price rose to £96 per

ton. The large increase in the production of copper, which in 1867 amounted to only 65,000 tons annually, and in 1886 to over 212,000 tons, contributed to bring down the price. From 1875 the value gradually declined, until in 1879 it touched £60. In 1880 it advanced to £81, but again receded, the price varying from £70 in 1882 to £38 10s., to which it dropped near the close of 1887. A rise of 100 per cent. in a few months must be regarded as phenomenal, not unnaturally conveying an impression that it was due to speculative causes. A French syndicate, formed in October, 1887, was credited with obtaining control of the copper market; and, according to recent accounts, its position cannot be regarded as satisfactory.

Since the Teetulpa field was opened in 1886, the gold yield from that source has been fully £200,000, and, in a colony where the declared value of minerals exported up to the end of 1886 is £19,075,000, the future in this department cannot be regarded as otherwise than reassuring. The discovery of silver ore in the Barrier Ranges of New South Wales, although not in South Australian territory, is certain to exercise a marked influence on the commercial prospects of the colony. Already a township of some importance has been created at Silverton, which draws its supplies chiefly from South Australian sources, apart from the fact that its exports are shipped from South Australian ports. The argentiferous formations are known to extend into the colony of South Australia, and it is announced that silver deposits have been found on the South Australian side of the border.

NORTHERN TERRITORY OF SOUTH AUSTRALIA.

PORT DARWIN, the principal harbour for shipping in the Northern Territory, is situated in latitude (of Fort Hill) $12^{\circ} 28' 30''$ south, and longitude $130^{\circ} 52'$ east. The harbour is fine and spacious, comprising many square miles of water, varying from four to fifteen fathoms—spring tides from 16 feet to 24 feet.

There is a splendid pier in connection with the railway between Palmerston and Pine Creek, which is carried into the water of Port Darwin for a length of 1120 feet, and giving accommodation for four large vessels at a time, with ample depth at low water.

The area of the Territory is computed at 423,620 square miles, or 335,116,800 acres, and its northernmost point nearly touches the 11th parallel of south latitude.

The price of agricultural land is 12s. 6d. per acre.

Pastoral land is let on lease for twenty-five years at 6d. per square mile for the first seven years, and 2s. 6d. per square mile for the remainder of the term. The runs must be declared to be stocked within the first three years at the rate of two head of large cattle or ten head of small cattle for every square mile of country applied for.

The cultivated lands grow sugar-cane, rice, cotton, yams, sweet potato, maize, tobacco, coffee, cassava, arrowroot, ginger, castor oil plant, millet, sorghum, taccia, pea nut (for oil), teat seed (for oil), manila and sun hemp, and many other like products of commercial value.

The country is rich in minerals, and during the last sixteen years has yielded a large quantity of alluvial gold, the ground, more or less auriferous, extending from Bridge Creek to Maud Creek, a distance of about 120 miles.

Gold-bearing reefs of considerable extent have been opened at the Stapleton, the Howley, the Britannia, Bridge Creek, Yam Creek, the Fountain Head, the Twelve-mile, the McKinlay, the Union, the Extended Union, the Lady Alice, Pine Creek, and Maude Creek. the distance between the first and last named places being about 145 miles.

Copper is abundant, particularly on the Daly River, which seems to be its home.

Good deposits of copper have also been found at Pine Creek, and at the Howley, within a short distance of the railway now in course of construction.

Rich lodes of silver are being worked at the Evelyn and Flora Bell Mines, and silver claims are also being opened at the Union, Pine Creek, Coronet Hill, Mount Shoobridge, Yam Creek, and other places.

Tin ore is also abundant, outcropping at Bynoe Harbour on the north, and extensively developed at the Finniess, Mount Shoobridge, Mount Wells, and Mount Todd, a distance of about 160 miles.

New discoveries of gold, silver, tin, and copper are constantly being made, while valuable gemstones are met with in many of the creeks and watercourses in the far interior of the country.

The mining laws are liberal, allowing a man to take out a mineral license to search for all metals but gold for £4 a year for eighty acres. The Gold Mining Regulations are proportionally encouraging.

In an elaborate report on the geology of the Northern Territory by the Rev. J. E. Tenison-Woods, F.G.S., that eminent authority says—"Very little is yet known of the mineral resources of the Northern Territory. It is exceptionally rich in minerals, only a small portion of which has yet been made known to the public;" and he believes the same quantity of mineral veins of gold, silver, tin, copper, and lead will not be found in an equal area in Australia, and doubts if many provinces will be found in any country so favoured as Arnhem's Land in respect to mineral riches.

SOUTH AUSTRALIAN EXHIBITS.

[All Exhibits under Section I. are transferred to the Fine Arts Section of the Catalogue, where they will be found under heading "SOUTH AUSTRALIA."]

II.

Education and Instruction—Apparatus and Processes of the Liberal Arts.

Class 6.—Education of Children, Primary Instruction, Instruction of Adults.

- 1 Minister of Education, Adelaide.—Illustrations of primary education work and appliances (in Education Court, Western Annexes).

Class 8.—Organisations, Methods, and Appliances for Superior Instruction.

- 2 Schomburgk, Dr. R., Director Botanic Gardens, Adelaide.—Herbarium of South Australian plants, 4 vols.

Class 9.—Printing, Books.

- 3 Frearson & Bro., Adelaide.—The process of photo-lithography, illustrated; lithographic label-printing; zincography.

- 4 Leader, H. F., Government Printer.—Letter-press printing.

- 5 Thomas, W. K., & Co., Adelaide.—Bound volumes and current files of newspapers.

Class 10.—Stationery, Bookbinding, Painting, and Drawing Materials.

- 6 Leader, H. F., Government Printer.—Book-binding, stationery, and letterpress.

Class 11.—General Application of the Arts of Drawing and Modelling.

- 7 Commissioners for South Australia.—Plaster casts of fish and ram's head, wax models of fruits, pipes, figures of aborigines, baskets, &c.

- 8 Knapton Bros., Adelaide.—Specimens of turnery—native wood.

- 9 Wilhelm, P., Eastwood.—Fancy turning.

- 10 Rees, Rowland, C.E., M.P., Adelaide.—Wood carving—"Queen Victoria."

Class 12.—Photographic Proofs and Apparatus.

- 11 Angas, Hon. J. H., M.L.C., Collingrove.—Photographs of cattle, horses, sheep, pigs, scenery at Collingrove, &c. (8).

- 12 Australian Smelting and Refining Co. Ltd., Dry Creek and Railway Station.—Photographs of smelting works, furnaces, &c.

- 13 Brown, H. Y. L., F.L.S., Government Geologist.—Photographs, illustrative of geological features of South Australia, and glacial action.

- 13a Commissioners for South Australia.—Photographs of public buildings, aborigines, and forest trees; and opal pictures of S. A. fruits.

- 14 Duffield, D. W., Glenelg.—Photographs (amateur) of South Australia.

- 15 Goyder, G. W., Surveyor-General.—Photolithographs of county, hundred, and town plans.

- 15a Hamilton, E. L., Protector of Aborigines.—Photographs of aborigines.

- 16 Hammer & Co., Rundle-st.—Photographic works (various).

- 17 Jones, J. W., Conservator of Water, Adelaide.—Photographs of boring machinery.

- 18 Leader, H. F., Government Printer.—Photographic views of Adelaide and South Australian scenery.

- 19 Murray, J., Mount Crawford.—Photograph of ram "Wool Prince."

- 20 Rees, R., C.E., M.P., Adelaide.—Photographs of studies in wood carving.

- 21 S. A. Ostrich Co. Ltd., King William-street, Adelaide.—Photographs of ostriches, feather-plucking, incubation, &c.

- 22 Stump & Co., King William-st., Adelaide.—Stand of photographic portraits.

- 23 Sweet, E., & Sons, Adelaide.—Photographs in frames.

Class 15.—Maps, and Geographical and Cosmographical Apparatus.

- 24 Bennett, G. H., Uraidla.—Map of the world (hemispheres), map of North America.

- 25 Brown, H.Y.L., F.L.S., Government Geologist.—Maps, showing the mineral resources and discoveries of the colony, coloured.

- 26 Goyder, G. W., Surveyor-General.—Map of South Australia, including the Northern Territory, showing sold and leased lands.

- 27 Lindsay, D., North Adelaide.—Lithographic maps of Central Australian ruby field.

13 Flinders Lane West, Melbourne.

III.**Furniture and Accessories.****Class 16.—Furniture.**

28 Adams, E. A., jun., Adelaide.—Miniature chest of drawers, veneer cedar, made when 18 years of age.

29 Commissioners for South Australia.—Photograph stand, designed by Mr. E. J. Woods, and stands and tables made from S. A. timber.

30 Simpson, A., & Son, Adelaide.—Collection of iron bedsteads.

Class 24.—Perfumery.

31 Burford, W. H., & Sons, Adelaide.—Toilet soaps, assorted.

32 Fowler, D. & J., Adelaide.—Toilet preparations, extract of soap, flavouring essences and extracts.

Class 25.—Leatherwork, Fancy Articles, and Basketwork.

33 Campbell, Laura, Talbot Hotel, Gouger-st., Adelaide.—Collection of wax fruit and flowers; leather frames; scale work, &c.

34 Industrial School for the Blind, North Adelaide.—Baskets, cane and willow; brushes and brooms, mats, brush and skeleton.

35 Kennedy & Wheeler, Adelaide.—Reversible wire baskets.

36 Kewson, Henrietta, South-Terrace.—Two fish frames and hand-painted satin pictures; two brackets, plush and fish scale; two wall pockets, &c.

37 Lamb, Annie, Adelaide.—Cone work, three frames; four brackets; two horse-shoes; two slippers; two wall pockets.

38 Lindstrom, C., Adelaide.—Two rustic flower-stands, two rustic tables.

39 Pether, Harriet, Lucletton.—Two cone picture frames; one pair cone brackets.

40 Werlin, J., Adelaide.—Flowers, ornaments, &c., made from fish scales.

IV.**Fictile Manufactures ; Glass, Pottery, &c.****Class 27.—Pottery.**

41 Shearing, G. & W., Hindmarsh.—6-in., 9-in., and 12-in. diapers and spandrills; roofing tiles, collection of terra-cotta ware; and sewage pipes.

V.**Textile Fabrics, Clothing, and Accessories.****Class 34.—Lace, Net, Embroidery, and Trim-mings.**

42 Cooke, Mrs. Annie, Adelaide.—Fancy crêpe and crewel work.

43 Hiles, Miss. Hallett.—Patchwork quilt, containing 2400 pieces.

44 Pappin, Ada Jessie, St. Peter's.—Crewel work.

Class 36.—Clothing for both Sexes.

45 Cave, W. R., & Co., Adelaide.—Ostrich feathers.

46 Everett, J. P., Adelaide.—Hats, caps, and helmets.

47 Leaver, J., Adelaide.—Men's hats, military caps, riding hats.

48 Lenger, Paulina, Harrowgate.—Hair flowers.

49 S. A. Ostrich Co. Ltd., Adelaide.—Ostrich feathers, dressed and dyed.

Class 38.—Portable Weapons, and Hunting and Shooting Equipments.

49a Lindsay, D., North Adelaide.—Native weapons.

50 Protector of Aborigines, Adelaide.—Waddies, shield, spear-throwing sticks (woome-ras), boomerangs, clubs or swords, spears, &c.

Class 39.—Travelling Apparatus and Camp Equipage.

51 Simpson, A., & Son, Adelaide.—Camp bed, japanned steel cabin trunks.

VI.

Raw and Manufactured Processes and Products.

Class 41.—Products of the Cultivation of Forests and of the Trades appertaining thereto.

- 52 Adams, E. A., jun., Adelaide.—Cooperage, collection of rough and prepared staves.
- 53 Borrow & Haycraft, Adelaide.—Tannage in casks.
- 54 Brown, J. E., J.P., F.L.S., F.R.G.S., Conservator of Forests, Adelaide.—Collection of indigenous, exotic, and principal timbers, &c.

Class 42.—Products of Hunting, Shooting, Fishing, and Spontaneous Products.—Machines and Instruments connected therewith.

- 55 Bednall, W. T., Adelaide.—General collection of South Australian shells.
- 56 Beresford, R. D., Adelaide.—Two turtle shells, complete; one Queensland bean, in shell; one small alligator.
- 57 Commissioners for South Australia.—One leopard seal-skin, emu eggs, ostrich eggs, native peach-stones, furs, &c.
- 58 Industrial School for the Blind, North Adelaide.—Draft and curled hair.
- 59 South Australian Ostrich Co. Ltd., Adelaide.—Undressed ostrich feathers.

Class 43.—Agricultural Products not used for Food.

- 60 Angas, Hon. J. H., M.L.C., Collingrove.—Two cases pure Lincoln wool samples, one case pure Merino wool samples, five fleeces from Merino rams.
- 61 Burford, W. H., & Sons, Adelaide.—Oils, &c.
- 62 Cleland, W. L., Parkside Lunatic Asylum.—Silk cocoons, &c., samples of reeled silk and woven silk fabric.

Class 44.—Chemical and Pharmaceutical Products.

- 63 Burford, W. H., & Sons, Adelaide.—Soaps, candles, stearine, glycerine, blacking, blue, soda crystals, axle-grease.
- 64 Fry, Hannah, North Adelaide.—Fry's patent Australian medicinal ointment.
- 65 Fowler, D. & J., Adelaide.—Pharmacopeical preparations.
- 66 Kinch, G., Kangaroo Island.—Eucalyptus oil in bottles.
- 67 Schlank, S., Adelaide.—Drugs, tinctures, and preparations.

Class 46.—Leather and Skins.

- 68 Borrow & Haycraft, Adelaide.—Leather, &c., prepared with exhibitors' tannage.
- 69 Reid, J., & Sons, Hindmarsh.—Collection of leather—sole, harness, kip, &c.

VII.

Machinery—Apparatus and Processes used in the Mechanical Industries.

Class 47.—Agricultural Implements and Processes used in the Cultivation of Fields and Forests.

- 69a Bagshaw, J. S., & Sons.—Winnower, chaff-cutters, corn-crushers, &c.
- 70 Blake, W., Balaklava.—One damp-weather stripper.
- 71 Cameron, Robert, & Sons., Kapunda.—Improved Adelaide stripper, with damp threshing appliances; ploughs, stump jump ploughs, &c.
- 72 Commissioners for South Australia.—Seedowers used on South Australian farms, stump-jumping implements, &c.
- 73 Dobbie, A. W., Adelaide.—Dobbie's patent broadcast seedower, for sowing wheat, oats, barley, manures, seeds, &c.

74 Heithersay Brothers, Petersburg.—Reversible patent ploughshares and coulters.

75 Lowrie, Professor, Roseworthy.—Plans, photos, &c., showing the working of the Agricultural College at Roseworthy.

76 Martin, James, & Co. Ltd., Gawler.—2 strippers, 3 chaffcutters, seedower, winnower, stump-jump plough (3-furrow), &c.

77 May Bros. & Co., Gawler.—Patent damp-weather stripper, "The Premier," patent improved corncrusher, patent broadcast seedower.

78 Mellor Bros., Adelaide.—Pony reaper (stripper), with adjustable bearings, Adamson's patent belt, steel comb, improved threshing arrangements.

79 Stott, J. W., & Son, Alma.—Mallee cutter, grubbing-machine, jumping plough, earth scoop.

80 Wheatley, J. J., Kapunda.—Winnowing machine.

Class 48.—Apparatus and Processes used in Agricultural Works and in Works for the Preparation of Food, Irrigation of Land, &c.

- 81 Lezza, S. M., Adelaide.**—Apparatus used in making confectionery.
82 Lindstrom, C., Adelaide.—Model of an oven for the manufacture of bread by the combined heat of fire and steam.
83 Simpson, A., & Son, Adelaide.—Collection of beekeeper's tinware.

Class 49.— Implements, Models, and Plans connected with Irrigation of Land.

- 84 Dobbie, A. W., Adelaide.**—Spray pumps, for destroying the blight on fruit trees and plants.
85 Gray, W. F., & Co., Adelaide.—Gray's pump or water-lifter for irrigation. Throws a large stream of water with little work.
86 Hooker, J., Kilkenny.—Double-action steam plunger pump, with only two valves, suitable for mining irrigation.
87 Horwood, J. H., & Co., Adelaide.—Horwood's balanced "Vaneless Adelaide" windmill; windmill pump, for deep wells; boring tools.
88 May Bros. & Co., Gawler.—Deep well pump.
89 Mellor Bros., Adelaide.—Windmill and pump, former made principally of iron and steel, more durable than wood.
90 Morris, H., Adelaide.—Irrigation fan.

Class 51.—Machines and Apparatus in General

- 91 Dobbie, A. W., Adelaide.**—Fire brigade fittings—unions, nozzles, branches, &c.
92 Marine Board of South Australia.—Patterns, castings, models, &c., executed at dock-yard.
93 Mellor Bros., Adelaide.—Patent belting (J. H. Adamson's), to take place of gearing.

Class 52.—Machine Tools.

- 94 Adams, E. A., jun., Adelaide.**—Coopers' tools.
95 Horwood, J. H., & Co., Currie-st., Adelaide.—Wool-scouring machinery (Warren & Hogarth's patent), with Horwood's improvements.

Class 58.—Machines, Instruments, and Processes used in various Works.

- 96 May Bros. & Co., Gawler.**—Two engineers' vices, automatic lubricator for steam or other cylinders.

Class 59.—Carriages and Wheelwrights' Work.

- 97 Blake, W., Balaklava.**—Waggon for farm purposes.
98 Cameron, R., & Sons, Kapunda.—Samples of wheel-making.
99 Duncan & Fraser, Adelaide.—The Adelaide buck-board buggy, light cart to carry four persons.
100 Martin, J., & Co. Ltd., Gawler.—One spring dray.
101 Morris, H., Adelaide.—Perambulator, boy's tricycle.

Class 61.—Railway Apparatus.

- 102 Duncan & Fraser, Adelaide.**—Tramway car; railway tricycle, 5 ft. 3 in. gauge, with steel tyres and fittings.
103 Mellor Bros., Adelaide.—Model, illustrating R. A. White's break of gauge railway.

Class 63.—Apparatus and Processes of Civil Engineering, Public Works, and Architecture.

- 104 Engineer-in-Chief, Adelaide.**—Water-supply appliances, as used by the Hydraulic Engineer's Department.
105 Kapunda Marble and Building Co., Kapunda.—Marble flags, slabbing, and tombstones (in grounds near Nicholson-st.).
106 Willunga Bangor Slate Co., Adelaide.—Roofing slates and flagging.

Class 64.—Navigation and Life Saving.

- 107 Lindstrom, C., Adelaide.**—Model of tubular boat, intended to secure the safety of life.
108 Morris, H., Adelaide.—Apparatus for extinguishing fires in theatres, &c.

Class 65.—Materials and Apparatus for Military Purposes.

- 109 Simpson, A., & Son, Adelaide.**—Electric contact mine (torpedo), spar torpedo.

VIII.**Alimentary Products.****Class 66.—Cereals, Farinaceous Products, and Products derived from them.**

- 110 Adelaide Milling and Mercantile Co. Ltd., Adelaide.**—Flour.
111 Angas, Hon. J. H., M.L.C., Collingrove.—Wheat—purple straw, Laminas, and Tuscan, &c.

- 112 Commissioners for South Australia.**—Wheat—purple straw, white Essex, white Tuscan. Oats—white and Cape. Barley—English. Peas, &c.

- 113 Fowler, D. & J., Adelaide.**—Gluten and starch.

- 114 Hackett, E. & W., Adelaide.**—Wheat, barley, oats, peas, straw; vegetable, agricultural, and other seeds.

- 115 Lovelock, G., "The Woods," Hundred of Pirie.—Four bushels of red Sonora wheat.
 116 Robertson, J., Golden Grove.—Four bushels Tuscan wheat, four bushels chevalier barley.
 117 Ward, J., Nelshaby, Hundred Napperby.—Sheaf of wheat raised from wheat known as Ward's prolific and rust-proof wheat.
 118 Wurm, F., Stansbury.—Collection of dried fruit, olive oil, cereals, &c., raised from one farm.

Class 67.—Bread and Pastry.

- 119 Murray, A., & Sons, Craiglee, Coromandel Valley.—Biscuits and cakes.

Class 68.—Fatty Substances used as Food. Milk and Eggs.

- 120 Cave, W. R., & Co., Adelaide.—Ostrich eggs.
 121 Davenport, Sir S., K.C.M.G., Adelaide.—Olive oil.
 122 Fowler, D. & J., Adelaide.—Olive oil.
 123 Hardy, T., Adelaide.—Olive oil.
 124 Monte, A. & S., Glanville.—Olive oil.
 125 North, B., Kensington.—Olive oil, 1886, 1887, and 1888.
 126 Robertson, J., Angas-street, Adelaide.—Olive oil ; salad oil.
 127 S. A. Ostrich Co. Ltd., King William-st., Adelaide.—Ostrich eggs.

Class 69.—Meat and Fish.

- 128 Fowler, D. & J., Adelaide.—Meat and fish, preserved.

Class 70.—Vegetables and Fruit.

- 129 Fowler, D. & J., Adelaide.—Fruits preserved without sugar, &c.
 130 Hardy, A., Mount Lofty.—Filberts and chestnuts, grown by exhibitor at Mount Lofty.
 131 Hardy, T., Adelaide.—Dried fruits, including raisins, currants, sultanas, prunes, plums, apples, pears, peaches, almonds, and olives.
 132 Robertson, J., Adelaide.—Vegetables preserved as pickles, &c.
 133 Robson, T. B., Ellythorpe, Hectorville.—Raisins, currants, and almonds.

Class 71.—Condiments and Stimulants, Sugar and Confectionery.

- 134 Fowler, D. & J., Adelaide.—Spices, vinegar, curry, pickles, and sauces, and other compound condiments, teas, coffee, &c.
 135 Hamilton, C. J., Jamestown.—Sauce and pickles.
 136 Hardy, T., Adelaide.—Vinegar.
 137 Lezza, S. M., Adelaide.—Confectionery.
 138 Margetts, C., North-parade, Parkside.—Tomato sauce.
 139 Murray, A., & Sons, Craiglee, Coromandel Valley.—Jams.

- 140 Murray, W., Glen Osmond.—Assorted jams.

- 141 Robson, T. B., Ellythorpe, Hectorville.—Unfermented wine.

- 142 Robertson, J., Adelaide.—Vinegar, baking powder, curry, essences, preserving powders, kali, &c.; tomato, Worcester, and other sauces.

- 143 Seppelt, B., Seppeltsfield, Greenock.—Brown vinegar, white wine vinegar.

Class 72.—Fermented and Distilled Drinks.

- 144 Auldana Vineyard Proprietors, Auldana.—Sherry, vintage, 1885 ; port, 1885 ; liqueur, 1886 ; cup wine, 1885 ; muscatel, 1884 ; claret, etc.
 145 Davenport, Sir S., K.C.M.G., near Adelaide.—Sauterne, 1883 ; Madeira, 1883-87 ; sauterne, 1887 ; chablis, 1885-7-8 ; St. Joseph, 1887 ; etc.
 146 Fourreux, J. H., Brompton.—Champagne, 1888 ; name of grapes from which wine was made, reisling ; colour, red.
 147 Goodier, W., & Co., Marion-st., Glanville.—Stout made out of malt, hops, and sugar ; hope from Mt. Gambier, S.A.
 148 Hamilton, C. J., Jamestown.—Hop bitters, sarsaparilla, and cordials.
 149 Hardy, T., Bankside.—Dry sherry, 1876 ; sherry, 1876 ; shiraz, 1815 ; white Spanish, 1880 ; reisling, 1885 ; No. 1 claret, 1882.
 150 Hyman, R., Adelaide.—Spirituous liqueur known as Swedish punch.

- 151 Kanmantoo Vineyard Proprietors.—Port, 1883 ; liqueur, 1886 ; Burgundy, 1885.

- 152 Monte, A. & S., Glanville.—Wine, claret, 1886 ; red wine, 1885-6 ; light wine, 1885.
 153 Penfold & Co., Magill.—Reisling, 1883-4 ; chablis, 1884-5 ; claret, 1883-4 ; carbinet, 1884-5 ; hermitage, 1886-6 ; tokay, 1884-5 ; sherry, 1883, &c.

- 154 Robertson, J., Adelaide.—Cordials.

- 155 Sage, S. & W., Angaston.—Port, 1883 and 1885 ; shiraz, 1887 ; frontignac, 1884 ; sherry, 1884 ; pineau, 1883 ; reisling, 1884-5.

- 156 Seppelt, B., Seppeltsfield, Greenock.—Spirits of wine, o.p. ; materials used in manufacture. S.A. wine, Tokay, 1882 ; claret, 1884 ; sherry, etc.

- 157 Smith, S., & Son, Angaston.—Port, 1880 ; constantia, 1882 ; dolcetto, 1884 ; sherry, 1870 ; frontignac, 1870 ; muscatel, 1885 ; chablis, 1884.

- 158 Ware, A. W. & T. L., Southwark, near Adelaide.—Colonial stout, XX, XXXX ; lager beer, XX, XXXX ; champagne ale, XXX, XXXX.

- 159 Wilkinson & Snow, 71 King William-st., Adelaide.—Wine and bottles (trophy) ; reisling, claret, 1878 ; Madeira.

ENTRIES FOR MR. P. B. BURGOYNE'S SPECIAL PRIZE.

Penfold & Co.

Seppelt, B.

Hardy, T., & Sons

Auldana Vineyard Proprietors

IX.**Sanitation, Medicine, Hygiene, and Public Relief.**

Class 73.—Sanitary Appliances, Surgical Instruments, Plans, Models, &c.

160 Engineer-in-Chief, Adelaide.—Works and appliances as used in the sewerage system of Adelaide.

161 Fischer, A., North Adelaide.—Bath-heater, for gas; bath-heater, for fuel; washing machine.

162 Gray, W. F., & Co., Adelaide.—Sanitary appliances, as used by the Sewer Department, lead traps, &c.

163 Lunatic Asylum, Adelaide.—Work executed by the inmates of the Hospital for the Insane, North-terrace.

164 Lunatic Asylum, Park-side.—Work executed by the inmates of the Hospital for the Insane, Parkside.

165 Rees, R., C.E., M.P.—Designs, Adelaide baths; drainage of Melbourne (3).

Class 74.—Apparatus and Processes for Heating and Lighting.

166 Gray, W. F., & Co., Adelaide.—Verity's patent gas fires, with asbestos fuel, for warming dwellings or offices.

167 Simpson, A., & Son, Adelaide.—Economic cooking range; kerosene cooking stoves and ranges.

X.**Agriculture and Associated Industries.**

Class 75.—Specimens of Farm Buildings and Agricultural Works.

168 Dickins, C., & Son, Adelaide.—Beehives and apicultural appliances used for the modern system of bee-culture.

169 MacGauran, T. E., North Adelaide.—Lodge or paddock gate, opened or closed by riders or drivers without leaving their seats.

170 Morris, H., Molton-st., off Flinders-st., Adelaide.—Tubular iron gate.

171 Murray, A. J., Adelaide.—Design for a farm building suitable for Australia.

XI.**Horticulture.**

Class 76.—Conservatories and Horticultural Apparatus.

172 Morris, H., Adelaide.—Lawn sprinkler.

Class 80.—Seeds and Saplings of Forest Trees.

173 Brown, J. E., J.P., F.L.S., F.R.G.S., Conservator of Forests.—Seeds, bark, gums, &c.—herbarium specimens of the "Forest Flora" of South Australia.

174 Hackett, E. & W., Adelaide.—Seeds of forest trees.

175 Hardy, A., Mount Lofty.—Cork and cork acorns.

XII.**Mining Industries—Machinery and Products.**

Class 82.—Apparatus and Processes of the Art of Mining and Metallurgy.

176 Gray, W. F., & Co., Adelaide.—Gray's patent improved exhaust cowl (water power), for exhausting foul air from factories, sewers, &c.

Class 83.—Mining and Metallurgy.

177 Australian Smelting and Refining Co. Ltd., Dry Creek Railway Station.—Raw and smelted ores and minerals, bullion lead and silver.

178 Barton, W. C., Quorn.—Manganese from Etna Mine, 6½ miles N.E. of Gordon.

179 Brown, H. Y. L., F.G.S., Government Geologist, Adelaide.—Specimens of rocks and fossils; a general collection of rock of South Australia; diamond-drill cores.

180 Chamber of Manufactures, Adelaide.—Cubes of South Australian building stones, cut by Mr. H. Fraser, from different quarries.

181 Cowling, Capt.—Specimens of copper ore, from Hamley Mine, Yorke's Peninsula.

- 182 **Dalwood, W. T.**—Specimens of asbestos, from Arkaba, near Hawker, in natural state and disintegrated by water.
- 183 **Dale, Wm.**—Malachite and mineral specimens.
- 184 **Davenport, Sir S., K.C.M.G.**—Blocks of iron ore, from Caroona, west of Port Augusta.
- 185 **Dobble, A. W.**, Adelaide.—Specimens of electro-plating, silvering, nickeleng, &c.; brass casting in the rough—general assortment..
- 186 **Hancock, G. F.**—Specimens of silver-lead ore, from Almunda Mine, 18 miles south-east of Adelaide.
- 187 **Hawke, J.**, Teatree Gully.—Fireclay, pipeclay, sand.
- 188 **Horn, T. S.**, Adelaide.—Silver ore from Eureka Mine, Woodside, 100 ft. level. Assays, $5\frac{1}{2}$ oz. and $8\frac{1}{2}$ oz. of gold and 15 oz. silver to the ton of 20 cwt.
- 189 **Jones, J. W.**, Conservator of Water, Adelaide.—Specimens of strata from well-borings—Milendilla bore, 231 ft.; Tintinara bore, 258 ft.
- 190 **Kempson, H.**, Teatree Gully.—Soapstone piped clay.
- 191 **Laycock, M.**, Waymouth-st.—Soapstone, from Gumeracha.
- 192 **Lawrence, V.**, Adelaide.—Gold specimens, from Forest Range, near Adelaide.
- 193 **Marshall, J., & Co.**, Rundle-st.—Cone of silver-lead ores, from Wheal Margaret mine, near Mount Barker.
- 194 **Moonta Copper Mines**.—Various specimens, arranged to show the order in which veins occur from the surface downwards.
- 195 **Patrick, W.**, Specimens of copper ore, from Hillside Mine, Kapunda.
- 196 **Prout, Capt. F.**—Soapstone from Gumeracha; trophy of manganese.
- 197 **Simpson, A.**, Adelaide.—Fire and burglar proof clutch-bolt safe; banker's clutch bolt, vault proof, vault door, and guille, &c.
- 198 **Singleton, F. C.**, Adelaide.—Ore from Aclare silver mine, situate 30 miles east of Adelaide, taken from depths varying from 60 ft. to 113 ft.
- 199 **Specimens of Copper Ore from Oatalpa.**
- 200 **Specimens from Reefs in Teetulpa.**
- 201 **Stephens, Dr.**—Silver-lead ore, from Eukaby, 48 miles east of Hawker railway station.
- 202 **Stratford, W. H.**—Nugget of virgin copper from Berra mine.
- 203 **Wallaroo Copper Mines**, Yorke's Peninsula.—Specimens illustrative of the mineralogical and geological features of the district.

NORTHERN TERRITORY OF SOUTH AUSTRALIA EXHIBITS.

II.

Education and Instruction—Apparatus and Processes of the Liberal Arts.

CLASS 12.—PHOTOGRAPHIC PROOFS AND APPARATUS.

1 Foelsche, P.—Photographic views of scenery in the Northern Territory.

CLASS 15.—MAPS AND GEOGRAPHICAL AND COSMOGRAPHICAL APPARATUS.

- 2 Lands Department, Palmerston.—Maps and plans of Northern Territory, including geological sketch, section, and report by Rev. J. T. Woods.
3 Reichardt, O. F. C., Land Surveyor, Palmerston.—Plan, showing mineral country at present prospected, and the sites of mineral workings.

V.

Textile Fabrics, Clothing, and Accessories.

CLASS 38.—PORTABLE WEAPONS, AND HUNTING AND SHOOTING EQUIPMENTS.

4 Becker, F. E., Keeper of Gaol and Labour Prison at Fannie Bay.—Collection of native weapons, made by Aboriginal natives in gaol.

5 Lindsay, D., F.R.G.S.—Collection of native weapons.

6 Stow, R. M., Palmerston.—Collection of native weapons.

VI.

Raw and Manufactured Processes and Products.

CLASS 41.—PRODUCTS OF THE CULTIVATION OF FORESTS AND OF THE TRADES APPERTAINING THERETO.

7 Holtze, M., Curator of the Government Experimental Gardens, near Palmerston.—Babool tree, yielding gum arabic and tanning material, etc.

CLASS 42.—PRODUCTS OF HUNTING, SHOOTING, FISHING, AND SPONTANEOUS PRODUCTS. MACHINERY AND INSTRUMENTS CONNECTED THEREWITH.

8 Adcock, W. E.—Two cases of butterflies.

9 Becker, F. E.—Specimens of coral from Fannie Bay.

10 Bednall, W. T., Adelaide.—North Australian shells, collected at and near Port Darwin.

11 Brandt, Otto.—Samples of leaf tobacco.

12 Johnson, Hon. J. C. E.—Specimens of bamboo over 40 ft. in height, exhibited to show the growth of tropical vegetation.

13 Kelsey, Mrs.—One case of butterflies and insects.

14 Millar, C. & E., Meridian Ant Hills.—See detailed explanation on exhibit.

14 Pater, Mrs. T. K.—Two cases of butterflies, moths, etc.

15 Solomon, V. L.—Show case, containing specimens of pearl and other shells, and other marine curiosities.

16 Searcy, A.—Tortoise-shell, from sea coast, red and black trepang.

CLASS 43.—AGRICULTURAL PRODUCTS NOT USED FOR FOOD.

17 Holtze, M., Curator of the Government Experimental Gardens, near Palmerston.—Jute, flax, cotton (upland, sea-island, Egyptian), hemp, etc.

18 Richardson and Little.—Samples of wool from Austral Downs Station, Herbert River (eleven months' growth).

VIII.**Alimentary Products.****CLASS 66.—CEREALS, FARINACEOUS PRODUCTS, AND PRODUCTS DERIVED FROM THEM.**

19 Brown, W. V.—Samples of maize from Daly River.

20 Holtze, M., Curator of the Government Experimental Gardens, near Palmerston.—Arrowroot, tapioca, manioc, sweet potato, and yam starch.

21 Kemp, Rev. H.—Samples of maize, French millet, spelt, rye, imphoe, kaffircorn, white mustard, etc., grown at Hermansburg (Finke River).

CLASS 70.—VEGETABLES AND FRUIT.

22 Holtze, M., Curator of the Government Experimental Gardens, near Palmerston.—Nutritious and condiment tubers, including arrowroot, etc.

CLASS 71.—CONDIMENTS AND STIMULANTS, SUGAR AND CONFECTIONERY.

23 Brandt, O., Shoal Bay.—White vacuum sugar (unrefined), and sugar-cane.

24 Holtze, M., Curator of the Government Experimental Gardens, near Palmerston.—Sugar-cane.

XI.**Horticulture.****CLASS 80.—SEEDS AND SAPLINGS OF FOREST TREES.**

25 Knight, J. G., Deputy Sheriff, Palmerston.—Specimens of various grasses in the neighbourhood of Palmerston.

XII.**Mining Industries—Machinery and Products.****CLASS 83.—MINING AND METALLURGY.
GOLD.**

26 Cruikshank, R. R.—Gold-bearing ironstone, discovered seven miles east of Grove Hill.

27 Eureka Gold Mining Co.—Auriferous quartz from claims at Housechild's Rush.

28 Ffrench and Brown.—Specimens of auriferous quartz from claims at Maude Creek.

29 Griffiths, W. K.—Specimens of auriferous quartz from Princess Louise, Yam Creek, and from Pioneer, Yam Creek; pyrites from the former.

30 Jensen, O., J.P.—Specimens of auriferous quartz from the Eleanor and Telegraph reefs. Yield of gold up to date equal to £83,000.

31 Knight, J. G., Deputy Sheriff, Palmerston.—Ball, showing quantity of gold obtained in the Northern Territory.

32 Millar, C. and E., Railway Contractors.—Specimens of auriferous quartz from claims 8, 9, and 10, South Union.

33 Port Darwin Co. Ltd.—Specimens of auriferous pyrites from the Howley Mine.

34 Port Darwin Mercantile and Agency Co.—Specimens of gold in quartz from Excelsior Claim at Bridge Creek, etc.

SILVER ORES.

35 Barrett, G. L.—Specimens of silver ore from claim near Mount Shoobridge.

36 Coronet Hill Silver Mine Proprietary.—Specimens of silver ore from Coronet Hill claims.

37 Eveleen Silver Mining Co. Ltd.—Four tons of silver-lead bullion, block of galena, samples of galena, oxidised ore, limestone, magnesite, etc.

38 Flora Bell Proprietary Silver Mining Co.—Specimens of galena and silver ore from the Flora Bell claim.

39 Griffiths, W. K.—Silver ore from Ironstone Blow, Yam Creek.

40 Hannan, W.—Silver ore from Pine Creek.

41 Littlefield and Clarke.—Specimens of silver-bearing ore.

42 Millar, C. and E., Railway Contractors.—Specimens of silver ore from north and south of Flora Bell Mines.

43 M'Inerney, T.—Specimens of silver ore from claim east of Eveleen.

44 M'Kinlay and Mount Wells Northern Territory Tin Mining Association.—Silver ore from their claim, M'Kinlay River.

45 Ryland, G. H.—Specimens of Silver ore from claim on freehold land at Rum Jungle.

46 Solomon, V. L.—Specimens of silver ore from claim on the Union.

TIN.

47 Barrett, G. L.—Large block of tin ore from Mount Shoobridge.

- 48** **Bynoe Tin Co.**—Surface specimens of tin ore from undeveloped claim at Bynoe Harbour.
- 49** **Cruikshank and Barrett.**—Tin ore from Mount Shoobridge.
- 50** **Finniss River Tin Mining Association.**—Tin ore from claims on the Finniss River.
- 51** **Grandsweek and Roberts.**—Tin ore from claim at Bynoe Harbour.
- 52** **Harwood and Hains.**—Specimens of tin ore from Mount Todd.
- 53** **Knight, Pickford, Clarke and Hains.**—Tin ore and sliced tin from prospecting claim at Bynoe Harbour.
- 54** **Leviathan Tin Co.**—Tin ore from prospecting claim, Bynoe Harbour.
- 55** **Moss, R.**—Tin ore from Snadden's Creek.
- 56** **North Australian Mining Co.**—Tin ore from six portions of the Company's land; specimens of plumbago.
- 57** **Palmerston Tin Co.**—Tin ore from Company's claim in Howley district.
- 58** **Port Darwin Tin Co. Ltd., Mount Wells.**—Tin ore and dressed tin.
- 59** **Saunders and Nash.**—Tin ore from Mount Shoobridge.
- 60** **Solomon, V. L.**—Tin ore from Mount Shoobridge, owned by Palmerston Copper Co., London.

COPPER.

- 61** **Beasley, O'Brien and Co.**—Copper ore, discovered near Mount Ellison.

- 62** **Brown and Cleland.**—Copper ore, discovered in Howley District.
- 63** **Corbett, E.**—Sample of surface ore from copper selection at present unworked near the Granite Crossing.
- 64** **Daly River Copper Co. Ltd.**—Copper ore from Company's claim on the Daly River.
- 65** **Millar, C. and E., Railway Contractors.**—Copper ore from Copperfield.
- 66** **Port Darwin Gem Prospecting Co.**—Surface ores from undeveloped mineral claims at Howley.
- 67** **Ryland, G. H.**—Copper ore from claim on freehold land at Rum Jungle.

ROCK AND SOIL.

- 68** **Knight, J. G.**—Specimens of rocks and building material.
- 69** **Millar, C. and E., Railway Contractors.**—Specimens of rock met with in cuttings on Palmerston and Pine Creek Railway.
- 70** **Holtze, M.**—Samples of agricultural soil from Daley River, Shoal Bay, twelve miles from Palmerston.

PRECIOUS STONES.

- 71** **Australian Ruby Co. Ltd.**—Australian gems, cut and uncut, from M'Donnell Ranges.
- 72** **Port Darwin Gem Prospecting Co.**—Gem stones (in the rough) and crystals.

INTRODUCTION TO THE QUEENSLAND COURT.

In consequence of the portion of Queensland situated north of the twenty-fourth parallel of latitude being more largely populated than the corresponding section of country in South Australia and Western Australia, there is, proportionately, a more extensive collection of products of a tropical character exhibited in this Court. Even a passing allusion to the Queensland climate would be deficient if it did not include some notice of the peculiarities of temperature. For a long period during the year the air is dry, buoyant, and exhilarating, the sky is clear, and the weather fine. In the winter season, which is generally dry, the mornings and evenings are cool, and in the daytime the sky presents a brilliant cerulean aspect, while the atmosphere is warm and balmy. Diseases of the endemic and epidemic type are of rare occurrence, and those incident to childhood are mild and of short duration. Mr. Blakeney, the Registrar-General for the colony, states that in 1886 "there were only 2342 persons returned as suffering from sickness and accident out of an aggregate population of about 325,000, being at the rate of 7·25 in every 1000 persons." The mean temperature at the southern boundary of the colony, which is 29 degs. south, is low in comparison with many places more distant from the equator. The climate is suitable enough to the average English constitution on the elevated lands of the interior. But the rigours of the tropical sun are too severe in low-lying lands in the north to be agreeable to newly-arrived immigrants from Europe. On the 31st December, 1887, the estimated population was 367,000—215,000 being males and 152,000 females.

LAND, STOCK, AND VEGETABLE PRODUCTS.—"The soil on the Lower Burdekin, Herbert, Johnstone, and many other northern rivers presents the most favourable conditions, climatically and chemically, for the successful cultivation of sugar, coffee, olives, rice, maize, spices, and other tropical productions. The rivers are on each side clothed with the densest and most luxuriant vegetation, for the most part composed of palms, cedars, bananas, and wild nutmegs, interlaced with canes, bamboos, and creepers of every description." The cultivation of sugar-cane has been temporarily retarded by an inadequate supply of suitable labour, but this difficulty is certain to be sooner or later removed, when the production of sugar from the cane is certain to become one of the most paying products of the colony. The yield varies from one to three tons to the acre. In addition to the tropical and semi-tropical fruits already described, which are grown to perfection in the country, may be mentioned the pine-apple, peach, loquat, guava, mango, passion-fruit, fig, melon, Cape gooseberry, orange, citron, lemon, mulberry, sweet potato, and yam. The land to the west of the coast range is elevated and thinly timbered, but well grassed.

The quantity of land under crop in 1886 was 209,561 acres, the largest crops being as follows:—Maize, 76,481 acres; and sugar-cane, 54,010 acres. Wheat, vines, potatoes, cotton, and other crops were cultivated, but on much more limited areas. The number of horses in 1887, which was 306,000, was greater than at any previous period in the history of the colony; but horned cattle, which numbered 4,474,563, were at a lower point than in some previous years. Sheep numbered 12,927,000 in 1886, which, however, showed improvement compared with the two preceding years. The number of squatting runs was 8580, and the number of acres leased to squatters in 1886 was 302,259,840, being in both instances lower than the four years preceding. The total area of the colony is 427,838,000,000, of which 295,265,000 acres are held under lease or license.

Of indigenous timbers, among the most useful is red cedar, which is in increasing demand for cabinet work, having the reputation of being very durable, and impervious to attack from the white ant. The supply is still abundant, although it has to be brought from places difficult of access. Nine species of yellow wood are found in Queensland, three of which extend into New South Wales. The strength and durability of this wood render it very serviceable for pick and axe handles. The Moreton Bay pine is a valuable variety. The timber known as "cypress pine" is met with along the coast, and is prized for cabinet work; while the species found inland is applied to the construction of telegraph posts, the wood being seldom attacked by the destructive white ant. The "she pine," a handsome and erect tree, is useful for spars, being soft, elastic, and adapted for joiner's work. A white, light timber is furnished by the "Leichhardt tree," which grows in North Queensland. "Pencil cedar" and "satinwood" are applied to economic uses, and the "silky oak" is in great demand for the staves of casks. A Queensland timber of the greatest utility is the "beech," which is strong, durable, easily worked, and is not affected by change of weather, being much inquired for to construct verandahs, floors, and decks of vessels. "Hardwood" timber is the

product of various eucalypts, including "ironbark," "spotted gum," "blue gum," "blood-wood," "stringy bark," "turpentine," "blackhit," "Brisbane box," and "scrub ironwood," the latter being perhaps the hardest wood grown in the colony.

MINING AND MINERAL RESOURCES.—Upwards of twenty goldfields at present are worked in the colony, the principal being Etheridge and Charters Towers in the northern, and Gympie and Croydon in the southern division. The mining statistics for 1887 represent the extent of auriferous alluvial and quartz ground worked upon to be 6744 square miles, not including Cloncurry, Mulgrave, and Rockhampton. The number of distinct quartz reefs proved to be auriferous was 1480; the number of European miners is 5781, the bulk of these being employed in quartz reefs. The total yield of gold for the year was 432,120 ozs., having an estimated value of £1,512,420. Since 1868 the total output has been 5,487,758 ozs., valued at £19,173,958.

The leading mineral products of Queensland are copper, tin, and coal. The richest copper mines are found at Clermont, Mount Perry, and Cloncurry. The district last named, however, promised to be the richest in the colony for copper, some of the ore raised yielding 50 per cent. of copper, and, doubtless, by the aid of sufficient capital and inexpensive transit, the Cloncurry mines will be fully and profitably developed. Antimony is found in various directions. The total amount of tin raised in 1886 was 3153 tons, valued at £162,124, obtained principally from the Herberton and Stanhope districts. The quantity of silver and lead found in the same period in the Herberton, Ravensdale, and Gayndah districts was 1631 tons, valued at £52,797. Gilberton produces bismuth, and the creeks running into that river are reported to contain sapphires, diamonds, agates, and rubies. Plumbago has been met with in vast quantities near Mount Bopple, near Tiaro. The Government Geologist of South Australia is credited with the statement that the coal resources of Queensland are equal, if not superior, to those of any other colony, and that ultimately her shores will be the grand coal emporium of the Southern Hemisphere. Another authority states that, while the carboniferous strata extend in all directions, the west plains will probably turn out to be one vast coal-field, and the hard oil districts of the Darling Downs are described as being capable of producing a large percentage of illuminating oil and paraffin. It is estimated also that the coal beds, which hitherto have only been tested on the surface, underlie an area of nearly 24,000 square miles. During 1887 the total quantity raised was 238,814 tons, of the value of £97,460. The value of minerals raised from 1860 to 1886 was £3,080,146.

MANUFACTORIES.—On the 1st January, 1887, there were in the colony 128 sugar mills, five steam mills for grinding and dressing corn, 127 steam saw mills, 36 agricultural implement factories, 23 tanneries, 11 fellmongerries, 111 cordial factories, 108 brickyards, 65 iron and tin works, 28 carriage works, 67 printing establishments, 11 railway-carriage works, 12 steam machinery and engine manufactures, 10 distilleries, three sugar refineries, 10 gas works, extensive locomotive works, and a large tweed factory.

EXPORTS AND IMPORTS.—In 1886 the exports reached in value £4,261,265, and the imports £5,831,561. The export value of sugar alone in 1887 was £758,362. The bulk of the latter was received from Great Britain, although a considerable business is being developed with the United States in agricultural implements and articles for domestic use.

BANKING.—Ten banks transact business in the colony, the two local institutions being the Queensland National Bank and the Royal Bank of Queensland. The total assets of these two banks were £14,577,593, and the liabilities £8,016,300. In 113 branches of the Government Savings Banks 37,550 depositors had to their credit £1,337,964, being an increase on the previous year of 1384 depositors, but a decrease of £2289 in the amount of deposits.

PUBLIC REVENUE.—For the year ending 30th June, 1887, the Government revenue was £2,807,608, showing a decrease of £60,595 on the previous year.

RAILWAYS.—The collective lines open in May, 1888, were 1865 miles in length, and the railways under construction represented 600 miles. The gross earnings were £693,088, and the gross working expenses £476,966 in 1887. The annual interest payable on the railway debt of £11,352,738 is £483,290; but the net income of the lines being only £216,122, the charge on the reserve fund was £269,167.

QUEENSLAND EXHIBITS.

[All Exhibits under Section I. are transferred to the Fine Arts Section of the Catalogue, where they will be found under heading "QUEENSLAND."]

II.

Education and Instruction—Apparatus and Processes of the Liberal Arts.

Class 6.—Education of Children, Primary Instruction, Instruction of Adults.

A.—Work by Pupils.

- 1 Blackstone Primary State School.
- 2 Bundama State School.
- 3 Bundaberg State School.
- 4 Burnside State School.
- 5 Caboolture State School.
- 6 Clifton Homestead Area State School.
- 7 Coningsby (Mackay) State School.
- 8 Dalrymple Creek (Allora) State School.
- 9 Dingo (Rockhampton) Provisional School.
- 10 Emu Creek State School.
- 11 Flat Top (Mackay) Provisional School.
- 12 Glenvale (Toowoomba) State School.
- 13 Halifax State School.
- 14 Herberton State School.
- 15 Howard State School.
- 16 Ipswich East State School.
- 17 Ipswich Girls' Central State School.
- 18 Kangaroo Point, Girls' State School.
- 19 Laidley State School.
- 20 Merritt's Creek (Toowoomba) State School.
- 21 Monkland State School.
- 22 Newtown (Ipswich) State School.
- 23 Oakey Creek State School.
- 24 Ramsay State School.
- 25 Ravenswood State School.
- 26 Rockhampton Boys' Central State School.
- 27 Rosewood State School.
- 28 Sandgate State School.
- 29 Sugarloaf State School.
- 30 Toowoomba East State School.
- 31 Yengarie State School.
- 32 Yeulba State School.

B.—Appliances for Teaching, &c.

- 33 Taylor, John, F.S.Sc. (Lond.) Rosewood.—Sample of school diagrams; rough plaster models to illustrate lessons in elementary geography, &c.

C.—Special.

- 34 Merenlender, Julius, Georgetown, Etheridge River.—Hebrew poetry.

Class 8.—Organisation, Methods, and Appliances for Superior Instruction.

- 35 Brisbane Museum Trustees.—Ethnographical collection from New Guinea.
- 36 Harvey, W. H., Brisbane.—An improved easel for artists, working with ratchet and lever.
- 37 New Guinea Special Commissioner, Hon. J. Douglas, C.M.G.—Ethnographical collection from New Guinea.

Class 9.—Printing, Books.

- 38 Hews, R. S., & Co., Brisbane.—Specimens of printing.
- 39 M'Kellar, Daniel, Brisbane.—Chromo-lithographic printing.
- 40 Queensland Commissioners, Brisbane.—All-range Queensland Register, Bailey's "Synopsis of the Queensland Flora," &c..
- 41 Registrar-General, Brisbane.—Census of Queensland, 1886. Two vols. "Statistical Register of Queensland for the Year 1886."

Class 11.—General Application of the Arts of Drawing and Modelling.

- 42 Benson, N., Brisbane.—Cardboard designs.

Class 12.—Photographic Proofs and Apparatus.

- 43 Charters Towers Committee.—Collection of photographs in frames made of local woods.
- 44 Ching, J. L., & Co., Dugong Fisheries, Queensland.—Photographs.
- 45 Curtis, L. E., Bundaberg.—Collection of photographs.
- 46 King, G. H. M., Mackay.—Collection of photographs.
- 47 Lomer, A., & Co., Brisbane.—Collection of photographic views and portraits.
- 48 Long & Robertson, Habana, Mackay.—Collection of photographs.
- 49 Lundager, J. H., Rockhampton.—Collection of photographs, photographs of Mount Morgan.

13 Flinders Lane West, Melbourne.

- 50 Mohr, Otto, South Brisbane.**—Photographic miniature reproduction.
- 51 New Guinea Special Commissioner** (Hon. John Douglas, C.M.G.)—Photographs of New Guinea, taken by E. Lindt, Esq.
- 52 Poulsen, P. C., Brisbane.**—Collection of photographic views of Brisbane, Maryborough, Gympie, and Bundaberg.
- 53 Queensland Commissioners.**—Collection of photographs of Charters Towers, Brisbane, &c.
- 54 Railway Department, Chief Engineer for Southern and Central Divisions.**—Photographs of Queensland railway works.
- 55 Reckitt and Mills, Mount Britton, Mackay.**—Collection of photographs.
- 56 Struver, F., Pine Creek, Darling Downs.**—Coloured photographs, scenery, buildings, improvements, &c.
- Class 14.—Mathematical and Philosophical Instruments.**
- 57 Wragge, C., Government Meteorologist, Post and Telegraph Department, Brisbane.**—Equipment of a climatological station.
- Class 15.—Maps and Geographical and Cosmographical Apparatus.**
- 58 M'Kellar, D., Brisbane.**—Maps of Brisbane and suburbs.
- 59 Meteorological Department, Brisbane.**—Forms of monthly meteorological registers used at stations and at post and telegraph office, Brisbane.
- 60 Mines Department.**—Geological maps, showing mineral areas of Queensland, Gympie, and Charters Towers.
- 61 Post and Telegraph Department, Brisbane.**—Map of Queensland, showing post and telegraph routes.
- 62 Public Instruction Department.**—Map of Queensland, showing the position of the State-schools of the colony.
- 63 Public Lands Department.**—General map of Queensland.
- 64 Railway Department, Brisbane (Chief Engineer's branch).**—Map of Queensland railways.
- 65 Registrar-General's Department, Brisbane.**—Map, showing density of population as ascertained by the census of 1886.

III.

Furniture and Accessories.

- Class 16.—Furniture.**
- 66 Blase, J., Barcaldine.**—Table top made of 60 varieties wood, in 1700 pieces.
- 66a Chubb, C. F., Ipswich.**—Occasional table, made by John Hucker, of Ipswich, from Bunya Bunya timber.
- 67 Keith, W., & Co., Brisbane.**—Durham coal scoop, Durham Waterloo coal scoop, helmet coal scoop, slop pail, well bucket.
- 68 Lupton, W., Brisbane.**—Improved double-oven portable kitchen range; fireproof safe; improved single oven and boiler portable kitchen range.
- 69 Mitton, T., Brisbane.**—Brass-mounted fender; gravel screen; patent curled-wire door mats; wire mattresses.
- Class 17.—Upholsterers' & Decorators' Work.**
- 70 Francis, Mrs. A. M., Barcaldine.**—Hand-painted calico windows, for bush use.
- Class 24.—Perfumery.**
- 71 Sweeney, E. C., & Co., Townsville.**—New magic florentine tooth powder.
- Class 25.—Leatherwork, Fancy Articles, an Basket-work.**
- 72 Queensland Commissioners.**—Basket-work.
- 73 Rawson, E. S., Mackay.**—Fancy articles, made from bamboo.

IV.

Fictile Manufactures, Glass, Pottery, &c.

- Class 27.—Pottery.**
- 74 Brown, P., Ipswich.**—Pressed bricks.
- 75 Campbell, J., & Sons, Brisbane.**—Red and cream terra-cotta ware, fire bricks, building bricks, &c.
- 76 Dinmore Brick & Tile Co. Ltd., Brisbane.**—Potteryware, churns, bread-crocks, chicken fountains, jars barrels, &c.
- 77 Nethling, J., Beenleigh.**—Bricks, hand-made.
- 78 Petrie, J., & Sons, Brisbane.**—Red and white building bricks.
- 79 Queensland Brick and Tile Co. Ltd., Brisbane.**—Building bricks (various).
- 80 Rogers, R. H., & Co., Ipswich.**—Enamelled bricks, glazed potteryware, garden pots, &c.
- 81 Waterstown Brick & Tile Co. Ltd.**—Granite bricks.

V.

Textile Fabrics, Clothing, and Accessories.

Class 30.—Worsted Yarn and Fabrics.

- 82 Queensland Woollen Manufacturing Co. Ltd., Ipswich.**—Worsted cloths and clothing.

Class 31.—Woollen Yarn and Fabrics.

- 83 Queensland Woollen Manufacturing Co. Ltd., Ipswich.**—Woollen cloths and clothing.

Class 32.—Silk and Silk Fabrics.

- 84 Chubb, Ipswich.**—Silk, cocoons; scarf manufactured at Coventry from silk grown by exhibitor.

Class 34.—Lace, Net, Embroidery, and Trimmings.

- 85 Jersey, Madame de, Brisbane.**—Mourning crêpe flowers.

- 86 Shearing, Mrs. E., Red Hill.**—Crochet-work quilt.

Class 35.—Hosiery and Underclothing, and Accessories of Clothing.

- 87 Parker, T., Queensland Woollen Co. Ltd., Ipswich.**—Improved appliance for supporting trousers.

Class 36.—Clothing for Both Sexes.

- 88 Queensland Woollen Manufacturing Co. Ltd., Ipswich.**—Worsted and woollen clothing.

Class 37.—Jewellery and Precious Stones.

- 89 Cregan, J. M., Brisbane.**—Engraving on precious stones and clockwork.

- 90 Sturzebecker, E., Thursday Island.**—Collection of Queensland pearls, from Torres Straits.

Class 39.—Travelling Apparatus and Camp-Equipage.

- 91 Lade, N., Brisbane.**—Portmanteaux.

Class 40.—Toys.

- 92 Sweeney, E. C., & Co., Townsville.**—The mocking bird, or prairie whistler.

VI.

Raw and Manufactured Processes and Products.

Class 41.—Products of the Cultivation of Forests, and of the Trades appertaining thereto.

- 93 Fairlie, J., & Sons, Maryborough.**—One cedar plank; collection of Joinery.

- 94 Green, J., Roma.**—Cypress pine (3 pieces).

- 95 Grimley, S., Bunya Mountains Sawmills.**—Fancy timbers, timbers in commercial forms and sizes, section of Bunya pine tree.

- 96 Hannam, W., Cairns.**—Timbers from the Cairns district.

- 97 M'Intosh & Dunnigan, Killarney, Warwick.**—Pine, beech, teak, and mahogany slabs.

- 98 Pettigrew, W., & Sons, Brisbane.**—Fret-work, door panels, ventilators for ceilings, porch panels, facia boards, wall brackets, name plate.

- 99 Queensland Commissioners, Brisbane.**—Tanning barks.

- 100 Stubbersfield Bros., Gatton.**—Iron-bark, spotted gum, red gum, nut wood, in plank, planed, tongued, grooved, and beaded.

- 101 Walker, H. B., Town Clerk, Charters Towers.**—Amateur's collection of Queensland timbers, dressed and prepared.

Class 42.—Products of Hunting, Shooting, Fishing, and Spontaneous Products. Machines and Instruments connected therewith.

- 102 Burns, Philip & Co. Ltd., Thursday Island.**—Trophy of mother-of-pearl shell, clam, and other shells; various marine and land products.

- 103 Ching, J. L., & Co., Townsville.**—Products of the dugong (Halicore Australis), comprising oil, fat, fetus, skull, skin, leather, ribbons, &c.

- 104 Cregan, J. M., Brisbane.**—Collection of Queensland birds, stuffed.

- 105 Dewar, D., St. Helen's, Mackay.**—Two pairs dugong tusks, two dugong hides, dugong oil.

- 106 Douglas, Hon. J., C.M.G., Special Commissioner for New Guinea.**—Collection of New Guinea birds, stuffed.

- 107 Field, H., Mackay.**—Stuffed alligator from the Pioneer River.

- 108 Heron, Mrs. Eliza, Bowen.**—Coral.

- 109 Petersen, L. E., South Melbourne.**—Collection of Queensland butterflies, &c.

- 110 Queensland Commissioners, Brisbane.**—Collection of Queensland birds in aviary; marine collection—algae, coral, &c., from Thursday Island.

- 111 Queensland Museum Trustees, Brisbane.**—Collection of New Guinea birds, stuffed.

Class 43.—Agricultural Products not used for Food.

- 112 Bailey, F. M., F.L.S., Government Botanist, Brisbane.**—Collection of Queensland grasses.

- 113 Belcher, J. W., Goondiwindi.**—Merino wool, scoured by pot-stick.

- 114 Clazy, Main & Smith, Runcorn Bone Mills, Brisbane.**—Bone dust, &c.

- 115 Greenup Bros., Richmond Tobacco Factory, Texas.**—Tobacco leaf, grown at Texas; tobacco made solely from Texas leaf.

- 116 Gunn, D., Stanthorpe.—Wool.
 117 Hocker, J. H., Brisbane.—Manufactured tobacco, cigars, leaf tobacco.
 118 Hutchinson, A., Gympie.—Oaten and lucerne hay.
 119 Lindeman, S. A., Abbotsford, Kolan, Bundaberg.—Tobacco.
 120 M'Bryde, J., Mackay.—Solid molasses.
 121 Melville, W., Bundaberg.—Tobacco leaf.
 122 Read, G. B., Texas.—Tobacco leaf, broad and Dutch variety, Kentucky variety.
 123 Thomas, J., Mackay.—Canary seed.

Class 44.—Chemical and Pharmaceutical Products.

- 124 Bailey, F.M., F.L.S., Government Botanist, Brisbane.—Gums.
 125 Boldeman, G. A., Rockhampton.—Yellow household soap.
 126 Ching, J. L., & Co., Townsville.—Oil and ointment manufactured from dugong fat.

- 127 Hancock, W., Ipswich.—Soap, tallow candles.
 128 Helidon Spa Water Co., Brisbane.—Natural mineral water from the spouting springs at Helidon.
 129 Ivison & Co., Charters Towers.—Composition for the prevention and removal of incrustation in steam boilers.
 130 Maas, L. J., Townsville.—Soap.
 131 Queensland Commissioners, Brisbane.—Collection of essential oils and fibres.
 132 Watkins, G., Brisbane.—Alstonia constricta, succus hydrocotyle asiatica.

Class 45.—Chemical Processes for Bleaching, Dyeing, Printing, and Dressing.

- 133 Wittgenstein, L., Brisbane.—New process of fellmongering, woolscouring, and tanning.

Class 46.—Leather and Skins.

- 134 Ching, J. L., & Co., Townsville.—Dugong hide and leather.
 135 Wittgenstein, L., Brisbane.—Furs, skins, &c.

VII.

Machinery, Apparatus, and Processes used in the Mechanical Industries.

Class 47.—Agricultural Implements and Processes used in the Cultivation of Fields and Forests.

- 136 Harvey, Sargeant & Co., Brisbane.—Corn sheller.
 137 McLean, A., Brisbane.—Two-horse plough.

Class 49.—Implements, Models, and Plans connected with Irrigation of Land.

- 138 Brisbane Board of Waterworks, Brisbane.—Model of pipe cleaner.

Class 50.—Apparatus used in Chemistry, Pharmacy, and Tanning.

- 139 Wittgenstein, L., Brisbane.—New process of woolscouring, fellmongering, and tanning.

Class 51.—Machines and Apparatus in General.

- 140 French, Col., G.A., C.M.G., Brisbane.—Model of improved windmill.
 141 Mitton, T., Brisbane.—Galvanised-wire rat-trap; nest of five sieves.

Class 59.—Carriages and Wheelwrights' Work.

- 142 McNab, J., & Son, Brisbane.—Stanhope dog-cart, four-wheeled.

- 143 Troy, P., Brisbane.—Dexter Queen four-wheel buggy, for two persons.

Class 60.—Harness and Saddlery.

- 144 Jarman, R. E., Brisbane.—Collection of harness and saddlery.
 145 Kerr, D., Rockhampton.—Saddle and bridle.
 146 Simon, G., Ipswich.—Set of pair-horse buggy harness.

Class 61.—Railway Apparatus.

- 147 Batchelder, G., Brisbane.—Traffic and dump car.

Class 63.—Apparatus and Processes of Civil Engineering, Public Works, and Architecture.

- 148 Harvey, Sargeant & Co., Brisbane.—Ornamental and other castings.
 149 Norris, C. S., Townsville.—Half model of 24-ft. centre-board sailing boat for smooth water; scale, 1 in. to the foot.
 150 Ricardo, P. R., Brisbane.—Model of pole tool boring rig.
 151 Shillito, S., & Son, Ipswich.—Iron castings.
 152 Williamson, W., Mackay.—Model of full-rigged ship under sail.

VIII.

Alimentary Products.

Class 66.—Cereals, Farinaceous Products, and Products derived from them.

- 153 **Alford, H. K.**, Darling Downs.—Allora spring wheat, Talavera wheat, Cape barley; lammas, purple straw, and white lammas wheat.
- 154 **Biddles Bros.**, Tiaro.—Superior maize.
- 155 **Carle, V.**, Sandy Creek, Warwick.—Defiance wheat.
- 156 **Doherty, W.**, Pimpama.—Arrowroot.
- 157 **Doran, J.**, Warwick.—Tuscan wheat.
- 158 **Grimes, G. & S.**, Brisbane.—Arrowroot.
- 159 **Hart, D.**, Mosman River.—Arrowroot.
- 160 **Hayes & Co.**, Warwick.—Flour made by the steel-roller process.
- 161 **Henderson, J.**, Tambourne.—Early amber and giant Honduras sorghum seed; silver hulled buckwheat grain.
- 162 **Hutchinson, A.**, Gympie.—Maize—in stalk, in husk, in cob, and dressed.
- 163 **Johnson, J. F.**, Rosedale, Daintree River.—Kumala farina (potato flour); kumala megasse, for stock feeding.
- 164 **Jones, R. O.**, Port Douglas.—Dressed and undressed rice.
- 165 **Lahey, F., & Sons**, Pimpama.—Arrowroot trophy, arrowroot in bulk.
- 166 **Lahrs, C.**, Yatala.—Rice.
- 167 **Lamb, W. D.**, Yangan, Warwick.—American maize.
- 168 **Lewis, C.**, Warwick.—White Tuscan wheat.
- 169 **Marshall & Slade**, Darling Downs.—Lucerne seed.
- 170 **Mills, G.**, Nerang Creek.—Arrowroot.
- 171 **Roberts, T.**, Freestone Creek, Warwick.—Indian wheat.
- 172 **Smith, W.**, Allora.—Purple straw wheat.
- 173 **Thomas, J.**, Mackay.—Rice, dressed and undressed.

Class 67.—Bread and Pastry.

- 174 **Wilson, F. W., & Co.**, Brisbane.—Biscuits.

Class 68.—Fatty Substances used as Food. Milk and Eggs.

- 175 **Hutton, J. C.**, Brisbane.—Separated cream, butter, bacon, hams, large cheese, loaf cheese.

Class 69.—Meat and Fish.

- 176 **Central Queensland Meat Export Co. Ltd.**, Rockhampton.—Trophy of preserved tinned meats, tongues, &c.
- 177 **Skinner, B.**, Brisbane.—Preserved meats, turtle soup, beche-de-mer soup, potted dugong, stewed turtle, turtle jelly, ox tongues, &c.

Class 70.—Vegetables and Fruit.

- 178 **Hutchinson, A.**, Gympie.—Pumpkins, peas, oats, potatoes, sweet potatoes, &c.
- 179 **Steuart, J. W.**, Allanton, Daintree, Port Douglas.—Banana meal.
- 180 **Swallow & Derham**, Cairns.—Banana meal.

Class 71.—Condiments and Stimulants, Sugar, and Confectionery.

- 181 **Adams, W.**, Somerville Plantation, Bundaberg.—Sugars.
 - 182 **Biddle Bros.**, Tiaro.—Open pan sugar, yellow counter, lime process only.
 - 183 **Bolton, F. W.**, Mackay.—Refined and loaf sugar.
 - 184 **Burnett, J. K.**, Mooloolah.—Coffee beans.
 - 185 **Carey, J.**, Killarney, near Warwick.—Honey.
 - 186 **Chubb, C. F.**, Ipswich.—Queensland olives, cayenne pepper, coffee beans, coffee, roasted and ground.
 - 187 **Clarkson, Mrs.**, Mackay.—Tropical jams and jellies.
 - 188 **Costello, I. M.**, Mackay.—Coffee, coffee beans.
 - 189 **Cran, R., & Co.**, Maryborough.—Sugars.
 - 190 **Cran, R., & Co.**, Bundaberg.—Sugars.
 - 191 **Drysdale Bros. & Co.**, Lower Burdekin.—Sugars.
 - 192 **Dyason Bros.**, Sydney Jam Co., Brisbane.—Jams.
 - 193 **Gaylard, J.**, Bundaberg.—Sugars, No. 1 white, large yellow crystal, small yellow crystal.
 - 194 **Gibson, A.**, Bundaberg.—Sugars, white refined, first, second, and third qualities.
 - 195 **Hart, D.**, Mosman River.—Ginger, coffee.
 - 196 **Hooper, J. H.**, Ipswich.—Aerated waters, syrup, &c.
 - 197 **M'Bryde, J.**, Mackay.—Unrefined sugars, sundry qualities.
 - 198 **M'Creedy, H.**, Palmyra Plantation, Mackay.—Sugars.
 - 199 **Melbourne Mackay Sugar Co.**, Mackay.—First and second quality sugar.
 - 200 **Neame, F. & A.**, North Queensland.—White sugar.
 - 201 **Paget Bros.**, Mackay.—Sugar canes, cane stools, yellow sugar, ration sugar.
 - 202 **Russell & Co.**, South Brisbane.—Candied citron peel.
 - 203 **Skinner, B.**, Brisbane.—Preserved fruits.
 - 204 **Smith, A.**, Mackay.—Rosella wine.
 - 205 **Smith, T. L.**, Marburg.—Collection of sugars, loaf sugar, golden syrup.
 - 206 **Swallow & Derham**, Cairns.—Sugar cane, six varieties; candied ginger, citron peel, lemon peel; pine-apples in syrup, &c.
 - 207 **Wood Bros. & Boyd**, Ingham.—White and yellow sugar.
 - 208 **Young, A. H. & E.**, Bundaberg.—Sugars.
- Class 72.—Fermented and Distilled Drinks.**
- 209 **Allcorn, J.**, Peak Mountain.—White sherry—vintage, February, 1887, full bodied. Queensland port.
 - 210 **Bassett, S. S.**, Manaroa.—Amontillado, golden; burgundy, red; hermitage, red.
 - 211 **Beh, Mrs. D.**, Middle Ridge, Toowoomba.—Australian claret; verdeilho, white; reisling, white.

- 212 Clifton & Co., Charters Towers.—Bottled stout, hops (chiefly colonial), Queensland sugar, malt (partly colonial and partly English).
- 213 Dick, J., Ipswich.—White wine, light; red wines.
- 214 Herzer, H., Toowoomba.—Red wine, white wine.
- 215 Hooper, J. H., Ipswich.—Cordials, &c., &c.
- 216 Kircher, J., Assmanshausen Vineyard, Sandy Creek, Warwick.—"Assmanshausen" red wine (varieties); verdeilho, white wine.
- 217 Lambert, G. S., Indooroopilly, Brisbane.—Madeira, white wine, red hermitage, claret, white hermitage.
- 218 Lanfear, Nicol & Co., South Brisbane.—Bottled stout, bottled ale.
- 219 North Queensland Brewery Co. Ltd., Townsville.—Bottled malt ale, bottled ale and stout, ale and stout in bulk.
- 220 Queensland Brewery Co. Ltd., Brisbane.—Bottled ale and stout, ale and stout in bulk.
- 221 Roggenkamp, C., Warwick.—Red wine.
- 222 Smith, T. L., Woodlands Plantation, Marburg.—Queensland rum.
- 223 Waldron, A., Dairy Farm Vineyard, Roma, Maranoa.—Port wine.
- 224 Walker, F. G., Sherwood Orangery, Coomera River.—Golden orange wine.

X.**Agriculture and Associated Industries.**

- Class 75.—Specimens of Farm Buildings and Agricultural Works, &c.**
- 225 Darling Downs & Western Lands Co., Jimbour, Darling Downs.—Section of soil from Darling Downs.
- 226 Department of Public Lands, Brisbane.—Sections of soils from various localities.
- 227 Keith, W., & Co., Brisbane.—Troughing.
- 228 Skinner, T., Museum, Brisbane.—Electric incubator.

XI.**Horticulture.**

- Class 79.—Fruit and Fruit Trees.**
- 229 Queensland Commissioners, Brisbane.—Queensland grown fruits.
- 230 Steuart, J. W., Allanton, Daintree, Port Douglas.—Bananas.
- 231 Swallow & Derham, Hambleton Plantation, Cairns.—Bananas.
- Class 81.—Plants for Conservatories.**
- 232 Queensland Commissioners, Brisbane.—Ornamental plants.

INTRODUCTION TO THE TASMANIAN COURT.

If a quarter of Ireland were cut off, the remaining three quarters would, as nearly as possible, represent the size of Tasmania. It sustains, moreover, a parental relation to Victoria in the sense that the first agricultural settlers in that colony, and the founder of Melbourne, migrated from the island to Port Phillip. The estimate of the population in December, 1887, was 142,478.

Son, Stock, and Wool.—Its area is nearly 16,000,000 acres, of which about 5,000,000 are alienated to the Crown either by sale or grant. Its soil is varied, according to locality, while a considerable portion of the country is unfit for remunerative cultivation. One section affords splendid and permanent pasture; another contains light sandy loam, easy to work, and excellent for growing wheat; while a third section is noted for a rich chocolate loam of great depth. The chief difficulty experienced by farmers in bringing large portions of the best soil under cultivation is the presence of dense forests, in which the gum-tree predominates. During 1886, 1,288,700 acres were held on depasturing leases. The total number of sheep, including lambs and sheep on the islands in Bass' Straits, was 1,605,646; horses were estimated at 29,622—the Melbourne Cup having more than once been won by horses bred in Tasmania; and horned cattle, including calves, at 147,753. It appears, however, that Tasmania cannot yet dispense with the importation of stock for local consumption and breeding purposes. In the first six months of 1887 there were 435 cattle and 12,327 sheep imported, at a cost of £13,939. On the other hand, the wool exports for 1886-7 amounted to 7,819,580 lbs., valued at £326,129, as compared with 8,062,723 lbs., valued at £296,000, in 1885-6. The advance in aggregate value, despite a diminution in the weight of wool exported, is accounted for by the higher prices obtained in the home market.

AGRICULTURE.—The crops found most suitable for the soil and climate are wheat, oats, barley, potatoes, peas, and hay; hops are also a staple product, and are profitably as well as widely cultivated. In the year ending March, 1887, the number of acres under cultivation in the colony amounted to 446,391—35,080 being in wheat, 21,607 in oats, 47,289 in hay, 181,203 in artificial grasses, and the remainder under other kinds of tillage. The total land under crop was 152,380 acres. Of wheat, the yield was 627,323 bushels; oats, 559,872 bushels; barley, 60,735 bushels; and potatoes, 75,731 tons. The average yield of wheat per acre in 1886-7 was 17.91 bushels; barley, 22.42 bushels; oats, 25.94 bushels; turnips, 9.28 bushels; hay, 1.06 bushels; hops, 1,097.68 lbs.; and potatoes, 4.71 tons per acre. Agricultural machinery of every description is in general use by farmers.

Fruit flourishes in every variety, and is so abundant that it might be exported to Europe more largely and to greater advantage than at present. Gooseberries, raspberries, currants, apples, pears, cherries, quinces, plums, peaches, apricots, mulberries, walnuts, filberts, strawberries, almonds, figs, and grapes grow luxuriantly. As might be anticipated in so great a fruit country, fruit preserving forms an important branch of industry. In 1886 the exports of different sorts of jams amounted to 2,741,737 lbs., valued at £59,653. Of green fruit, 303,708 bushels were exported, valued at £95,126. Pulp fruit was also exported in considerable quantities, and the jam sold for local consumption reached 169,660 lbs. There are seven jam factories in the colony, and if fruit fitted for export to Great Britain were carefully packed, the trade with Europe could be indefinitely increased. The yield of fruit for the year ending March, 1887, was 315,128 bushels of apples, and 22,434 bushels of pears. Complete returns of other descriptions of fruit are not published.

MINERALS AND METALS.—Unquestionably the most important mineral product exported from this colony is tin, which was discovered in immense quantities at Mount Bischoff, in the north-west quarter of the island, in 1872. Since that period the same mineral has been met with over an expanse of territory in the north-east corner, and so great an impetus has been given to mining development in consequence of these and other finds, that a Mining Department has been created as a branch of the Lands and Works office. The yield of pure tin from Mount Bischoff ore averages 74 per cent. The heavy decline in the price of tin, which took place a few years since, could not fail to affect adversely the industry in Tasmania, but with the recent improvement in value in the home market, signs of prosperity returning to the industry are already apparent. Numerous leases of tin-ore land held for speculative purposes have been forfeited through failure on the part of the owners to comply with conditions imposed by the Government. Fortunately for the country, these leases have fallen into the hands of *bona fide* working miners, who are conducting prospecting operations with energy and success. The result is that mining for tin, as an occupation, gives reasonable promise of becoming

eminently sound and productive. The value of tin, in ore and ingots, exported in 1882 was £361,046; in 1886, £363,364; and in 1887, £407,857. The total for the period 1870-1887 was valued at £3,940,157. The quantity of ore smelted in the colony was 4982 tons, producing 3475 tons metal. The total value of tin exported in the ten years 1875-1884 was £2,803,811.

Gold mining has now become an established industry in the colony, and the returns from some of the fields have been encouraging. That metal has been found scattered over the northern part of the island, in alluvial and quartz deposits. The richest discoveries have been made in the vicinity of Tamar River, the existence of gold in the country having become known soon after gold was first found in Victoria. The most striking discovery during 1886 was the "Iron Blew," at the Linde, West Coast, and the deposit is described as remarkably rich. The largest nugget ever found in the colony was unearthed in 1883, at Whyte River, in the Corinna district, and weighed 243 ozs. 1 dwt. Two years later a nugget weighing 4 lbs. was found at the Rocky River, on the West Coast. In the ten years, 1876 to 1885, the total amount of gold produced in Tasmania was 390,856 ozs. 14 dwts., valued at £1,496,797. For the half-year ending June, 1887, the yield was 18,798 ozs., valued at £70,725. Silver is reported to have been discovered at the Hazlewood River, on the West Coast; at the Zeehan, and at the Scanaran River, on the East Coast. A bismuth lode of great extent was found some years since at Mount Ramsay, and pronounced by a high mining authority to be one of the richest in the world; but, unfortunately, the locality is difficult of access. A lode of antimony, two feet thick, was found in the Waratah Company's claim, which assayed 7 ozs. 9 dwts. 8 grs. to the ton; it has also been met with in other localities. Asbestos and galena are known to exist; and copper also, although the latter, as yet, has not been discovered in payable quantities. Tasmanian iron is said to possess the malleable property of Swedish iron. Coal, both anthracite and bituminous, is extensively distributed, although, as a rule, it cannot yet be worked at a profit, the total export for the year being 13,500 tons. Valuable quarries of building stone and slate are being worked, and both of these articles are largely exported to Melbourne.

TIMBER.—If the economic value of the timber resources of the country may be judged by the specimens exhibited, they cannot but rank as important. In addition to the *Eucalyptus*, which is adapted for shipbuilding, railway sleepers, housework, and other purposes where strength and durability are required, there is the pine, which is well adapted for the manufacture of furniture and all kinds of indoor work. Among other kinds is the wattle bark, which is exported for use in tanning processes.

RAILWAYS.—According to the published statistics for 1886, 203 miles were open for traffic, and 133 miles in course of construction.

REVENUE.—A deficiency appeared in the Treasurer's statement for 1886, amounting to £4571. According to the Treasurer's statement, published in May last, the estimated revenue to the end of June for the year is £606,828, and the deficiency to that date is estimated at £170,953. The revenue, however, shows a satisfactory increase, although the expenditure appears to be still rapidly increasing.

TRADE.—The exports for 1886 were £1,331,540, as against £1,313,693 for 1885, while in 1887 they reached £1,449,371. On the other hand, the imports were £1,756,567 in 1886 against £1,757,486 for the year preceding, receding in 1887 to £1,596,817. The number of factories, large and small of every kind, is 3356. A successful effort on a large scale has been made to establish silk and olive culture on Maria Island, and now about 350 persons of thirteen different nationalities are employed in the enterprise, under the direction of an enterprising Italian. The Tasmanian coasts abound in fish, especially the trumpeter, rock-cod, and flounder; nor has the prospect of successful salmon culture been abandoned.

TASMANIAN EXHIBITS.

[All Exhibits under Section I. are transferred to the Fine Arts Section of the Catalogue, where they will be found under heading "TASMANIA."]

II.

Education and Instruction—Apparatus and Processes of the Liberal Arts.

CLASS 8.—ORGANISATION, METHODS, AND APPLIANCES FOR SUPERIOR INSTRUCTION.

- 1 Government State School, Hobart.—State-school work.
- 2 Government Technical School, Hobart.—Technical work.
- 3 Laurie, J. S., Hobart.—Autotype of an alto-relievo map of England, scientifically reduced from ordnance maps.
- 4 Stone, R., Long Bay.—Model five-roomed house.

CLASS 9.—PRINTING, BOOKS.

- 5 Sholl, M., Launceston.—Mining work, an illustration of mining companies in Tasmania.

CLASS 11.—GENERAL APPLICATION OF THE ARTS OF DRAWING AND MODELLING.

- 6 Tasmanian Museum Trustees.—Casts of faces of Tasmanian aborigines.

CLASS 12.—PHOTOGRAPHIC PROOFS AND APPARATUS.

- 7 Anson Bros., Hobart.—Photography.
- 8 Aikenhead, W., Formby.—Photography.
- 9 Barnicoat, H. S., Hobart.—Photography.
- 10 Farquhar and Co., Emu Bay.—Photography.

- 11 Fawns, J. G. S., Launceston.—Photography.
- 12 Nicholas, R. J., Launceston.—Photography.

13 Rusden, J. R., Launceston.—Black satin robe, with Tasmanian views.

- 14 Spurling, S., Launceston.—Photography.
- 15 The Tasmanian Photographic and Art Association, Hobart.—Four framed photos.

- 16 Trustees Tasmanian Museum.—Photographs of Truganini (female, died 1876), and Wm. Lannie (male), the last Tasmanian aborigines.

CLASS 15.—MAPS AND GEOGRAPHICAL AND COSMOGRAPHICAL APPARATUS.

- 17 Belstead, F., Commissioner of Mines, Hobart.—Map of Tasmania, showing mineral deposits, etc.

- 18 Briesi Tin Mining Co.—Plan of workings.

- 19 Cornwall Coal Co., Fingal.—Plan of workings.

- 20 Davies, J., Beaconsfield.—Two maps Tasmania Gold Mining Co.'s workings, and geological map of Beaconsfield district.

- 21 Mount Bischoff Tin Mining Co.—Maps, describing workings of mine.

- 22 Mount Nicholas Coal Co., Fingal.—Plan, showing different coal seams on property.

- 23 Stanhope Tin Mining Co., Waratah.—Plan of the surface and underground workings of mine.

- 24 Trustees Tasmanian Museum.—Geological map of Tasmania, by R. M. Johnston, F.L.S.

- 25 Tasmanian Government.—Map of Tasmania, showing alienated land held on pastoral leases.

III.

Furniture and Accessories.

CLASS 16.—FURNITURE.

- 26 Dempster and Pearce, Launceston.—Bedroom suite, etc.
- 27 Greaves, J., Hobart.—Nest of drawers, for library.
- 28 McLoughlin, T., Hobart.—Venetian blinds.
- 29 Parker, J., Launceston.—Venetian blinds.

CLASS 18.—CARPETS, TAPESTRY, AND OTHER STUFFS FOR FURNITURE.

- 30 Day, Mrs. B., St. Leonards.—Hearth rug.

CLASS 24.—PERFUMERY.

- 31 Brown, F. S., and Co., Launceston.—Perfumery, etc.
- 32 Evans, A., Launceston.—Fancy soap.
- 33 Hatton and Laws, Launceston.—Perfumery, etc.
- 34 Lithgow and Co., Hobart.—Perfumery, etc.

13 FLINDERS LANE WEST, MELBOURNE.

- CLASS 25.—LEATHERWORK, FANCY ARTICLES, AND BASKETWORK.**
- 35 Bridges Bros., Hobart.—Basketware.
 36 Carlson, P. O., Hobart.—Egg stand, walking sticks, and pipes.
 37 Dear, Miss M., Hobart.—Fretwork cabinet.
 38 Garner, A., Wynyard.—Walking sticks and fancy woods.
 39 Houston, S., Launceston.—Carved wood chain and anchor.
 40 Jones, Mrs., Augusta-road.—Straw work.
 41 Jowett, W., Launceston.—Scrap draught screen.
 42 Koeppen, Mrs., Hobart.—Fruit models in wax.

- 43 Leek, F., Ulverstone.—Picture frames, inkstands, etc.
 44 Morton, J., Launceston.—Razor case, huon pine.
 45 Nichols, P., Hobart.—Two fancy inlaid tables.
 46 Phillips, A. J., Latrobe.—Chess table, blackwood, musk, etc.
 47 Room, Mrs., Launceston.—Wax and paper flowers.
 48 Sinclair, Miss, Hobart.—Spatterwork table top, conework frame.
 49 Stormont, Miss, Ross.—Fender stool.
 50 Tarry, T., Sheffield.—Walking sticks, whip handles.
 51 Wignall, B., and Son, Hobart.—Basketware.
 52 Wilmott, J., Hobart.—Fretwork fire screen, two inlaid brackets.

IV.**Fictile Manufactures, Glass, Pottery, &c.**

- CLASS 27.—POTTERY.**
- 53 Campbell, J., Launceston.—Majolica, Rockingham, cane, Bristol, and terra-cotta ware, drain pipes, etc.

- 54 Jones, W., Emu Bay.—Bricks, etc.
 55 Maria Island Trading Co.—Bricks.
 56 Mount Nicholas Coal Co.—Bricks, etc.

V.**Textile Fabrics, Clothing, and Accessories.**

- CLASS 31.—WOOLLEN YARN AND FABRICS.**
- 57 Aiken, Lennox and Co., Hobart.—Tweeds, blankets, flannels, ladies' dress tweeds, and travelling rugs.
 58 Bulman, P., Launceston.—Woollen goods.
 59 Johnstone Bros. and Co., Hobart.—Tweeds, etc.

- 67 Mayson, Miss G. A., Hobart.—Fancy work.
 68 Newitt, Miss E. S., Launceston.—Arasene, wattle, gum, plush, bead, and macrame work; silk embroidery.
 69 Newitt, Alice, Launceston.—Cushion and cosey, arasene work.
 70 Potts, Miss, Launceston.—Raised-wool cushion, antimacassar, etc.
 71 Tapp, Miss C., Antill Ponds.—Needlework.

- CLASS 34.—LACE, NET, EMBROIDERY, &c.**
- 60 Birchall, Miss Alice G., Launceston.—Indian worked tea cosey and table cover.
 61 Chester, Miss G., Launceston.—Macramé and fancy needlework.
 62 Coates, Miss H. M., Launceston.—Beaded cushion.
 63 Cundy, Miss, Launceston.—Worked cushion.
 64 Gurr, Miss, Launceston.—Mantel drape, wool-work cushion, two wall pockets.
 65 Jones, Miss Esther F., George Town.—Lace work.
 66 Jordon, J. J. H., Launceston.—Wool-worked picture, by Miss Edwards.

- CLASS 36.—CLOTHING FOR BOTH SEXES.**
- 72 Frith, H., Ulverstone.—Ladies' and gents' boots.
 73 Lewis, G., Launceston.—Ladies' and gents' boots.

- CLASS 37.—JEWELLERY AND PRECIOUS STONES.**
- 74 Stewart Bros., Launceston.—Jewellery, etc.

- CLASS 38.—PORTABLE WEAPONS AND HUNTING AND SHOOTING EQUIPMENTS.**

- 75 Valentine, W. H., Invermay.—Stand fishing rods.

VI.

Raw and Manufactured Processes and Products.

CLASS 41.—PRODUCTS OF THE CULTIVATION OF FORESTS AND OF THE TRADES APPERTAINING THERETO.

- 76 Addison, J., Penguin.—Blackwood log and fitch of same.
- 77 Belbin and Co., Hobart.—Timber (several varieties).
- 78 Bond, F., Hobart.—Black wattle-bark.
- 79 Bridges Bros., Hobart.—Basketware and materials used in basketware.
- 80 Castle, W. W., Hobart.—Model of vessel (Tasmanian woods).
- 81 Chesterman, H., Hobart.—Timber (several varieties).
- 82 Cook, J., and Son, Glenorchy.—Bark for tanning.
- 83 Ditcham Bros., Launceston.—Bent wood, etc.
- 84 Ellis, G. and A., Ulverstone.—Palings and staves.
- 85 Ford and Harris, Hobart.—Timber (several varieties).
- 86 Geeves, O., Geeston.—Sleepers.
- 87 Gourlay and Lear, Hobart.—Stringy bark and blue gum.
- 88 Grubb, W. C., and Bros., Hobart.—Wattle-bark.
- 89 Grubb and Eltham, Hobart.—Wattle-bark.
- 90 Heathorn, R. B., Ringarooma.—Musk wood, polished.
- 91 Jowett, T., Leven.—Blackwood, soft.
- 92 Risby Bros., Hobart.—Timber.
- 93 Sidebottom, W., and Son, Launceston.—Wattle-bark (ground).
- 94 Tasmanian Timber Trophy, designed and carried out by G. S. Perrin, Esq., F.L.S., Conservator of Forests.
- 95 Taylor, E., Penguin.—Palings, blackwood logs, myrtle, etc.
- 96 Wignall, B., and Sons, Hobart.—Basketware and materials used in basketware.

CLASS 42.—PRODUCTS OF HUNTING, SHOOTING, FISHING, AND SPONTANEOUS PRODUCTS. MACHINES AND INSTRUMENTS CONNECTED THEREWITH.

- 97 Elms, A., Launceston.—Cabinet Tasmanian insects.
- 98 Leek, F., Ulverstone.—Shells, seaweeds, etc.
- 99 Marky, M., Formby.—Tasmanian birds' eggs.

100 Tasmanian Fisheries Commission.—Collection Tasmanian fishes, casts, also salmon, trout (in spirits), crabs, etc.

101 Trustees Tasmanian Museum.—Collection of Tasmanian herbivorous and carnivorous marsupials, etc.

CLASS 43.—AGRICULTURAL PRODUCTS NOT USED FOR FOOD.

102 Bennett, W. H., Ross.—Fleece wool, Magenta II., weight 20½ lbs., and photos. of ram and ewe.

103 Wacksmuth, R., Launceston.—Fleeces three Merino ewes, bred by D. Taylor, Esq., St. Johnstone.

CLASS 44.—CHEMICAL AND PHARMACEUTICAL PRODUCTS.

- 104 Andrews and Seddon, Launceston.—Blacking, polishing paste, plate powder, etc.
- 105 Black, H., Emu Bay.—Aerated waters, etc.
- 106 Cascade Brewery Co., Hobart.—Aerated waters, etc.
- 107 Evans, A., Launceston.—Soaps and candles.
- 108 Grubb and Eltham, Hobart.—Spice for horses and cattle.
- 109 Hunter, R. R., Leven.—Aerated waters, etc.
- 110 Tasmanian Chromes, Paint, and Colour Co., Launceston.—Prepared paints.
- 111 Upton and Son, Launceston.—Soap and candles.
- 112 Walden, J., Launceston.—Tallow, etc.
- 113 Weaver and Co., Hobart.—Aerated waters, etc.

CLASS 46.—LEATHER AND SKINS.

- 114 Burrowes, S., Risdon-road.—Leather.
- 115 Button, T. L., Leven.—Dressed kangaroo and wallaby skins, leather.
- 116 Cook, J., and Son.—Leather and furs (in varieties).
- 117 Gardner, R., Launceston.—Kangaroo skins.
- 118 Gill, H. H., Hobart.—Opossum rug.
- 119 Hall, A. J., Launceston.—Opossum rugs (black and grey).
- 120 Holmes, F. A., Hobart.—Leather and furs.
- 121 Paget, J., Hobart.—Furs.
- 122 Templar, J., sen., Hamilton-on-Forth.. }
Angora muffs (six).

VII.

Machinery—Apparatus and Processes used in the Mechanical Industries.

CLASS 47.—AGRICULTURAL IMPLEMENTS AND PROCESSES USED IN THE CULTIVATION OF FIELDS AND FORESTS.

- 123 Titmus, L., Leven.—Wood and iron ploughs and harrows.
 124 Anglo-Guano Co., Hobart.—Guano, bone-dust.
 125 Dundo, F. E., Westbury.—Iron plough model.
 126 Smith, G. R., Table Cape.—Blackwood plough, potato fork, and scrub hook.
 127 Thomas, D., Perth.—Scrub grubber, shears.
 128 Wright, A. N., Table Cape.—Swingletrees and wheelbarrow.
 129 Wright and Waddington, Launceston.—Wooden swing plough.

CLASS 59.—CARRIAGES AND WHEELWRIGHTS' WORK.

- 130 Wright, N. A., Wynyard.—Dray, frame, and racks.

CLASS 60.—HARNESS AND SADDLERY.

- 131 Brain, E., Tunbridge.—Halters, with plaited headpieces.
 132 Roden, W., Deloraine.—Stockwhips.

CLASS 63.—APPARATUS AND PROCESSES OF CIVIL ENGINEERING, PUBLIC WORKS, &c.

- 133 Fitzgerald, G., Launceston.—Marble from Gordon River.
 134 Geddes, W., Leven.—Granite.
 135 Ikin, J. W., Launceston.—General brassware.
 136 Jackson F., Launceston.—Brass locks, etc.
 137 Johnston, A., George's Bay.—Granite.
 138 Liddle, J. F., Hamilton-on-Forth.—Serpentine.
 139 Maria Island Co.—Building materials, cement, lime, stone, etc.
 140 Rawnsley, T., Ross.—Building stone.
 141 Tasmanian Stone Trophy, designed and carried out by G. Eldridge, Esq., Government Architect.
 142 Westbrook, T., Kangaroo Point.—Freestone, white.
 143 Whitton, G.—Serpentine stone.
 144 Williams, D. E., Glenorchy.—Lime.

CLASS 64.—NAVIGATION AND LIFE SAVING.

- 145 Byrne, J. W.—Life-saving apparatus.

VIII.

Alimentary Products.

CLASS 66.—CEREALS, FARINACEOUS PRODUCTS, AND PRODUCTS DERIVED FROM THEM.

- 146 Affleck, T., Longford.—Flour, oatmeal.
 147 Bethune, J. C., Ouse.—Tasmanian golden hops, 1888.
 148 Brock, H. J., Campania.—Wheat and flour.
 149 Cascade Brewery Co.—Hops.
 150 Crawford Bros., Ulverstone.—Wheat.
 151 Cresswell, C. F., Hobart.—Cereals and seeds.
 151a Downie and Son.—Hops.
 152 Don Trading Co.—Wheat, oats, peas.
 153 Ellis, G. and A., Ulverstone.—Oats.
 154 Fawns, G. S., Launceston.—Malt.
 155 Fryer, J. R., and Co., Hobart.—Hops.
 156 Gibson, W. H., Hobart.—Wheat and flour.

- 157 Grant, R., Sorrell.—Wheat.
 158 Horne, R. G., Deloraine.—Wheat.
 159 Johnson, E., Green Ponds.—Wheat, oats.
 160 Monds, T. W., Longford.—Flour, oatmeal, etc.
 161 Nicholson, H., New Norfolk.—Hops.
 162 Phegan, A., Hamilton-on-Forth.—Wheat.
 163 Read, R. C., New Norfolk.—Hops, 1888.
 164 Scott, J., and Son, Forth.—Oatmeal, flour, wheat.
 165 Shoobridge, W. E., New Norfolk.—Hops, 1888.
 166 Walden, J., Launceston.—Cereals.
 167 Weston, M., New Norfolk.—Hops, 1888.

CLASS 67.—BREAD AND PASTRY.

- 168 Russen, C., Launceston.—Cakes, biscuit trophy, and self-raising flour.

CLASS 68.—FATTY SUBSTANCES USED AS FOOD, &c.

- 169 Anderson, J. H., Penguin.—Cheese.
- 170 Becker, A., Falmouth.—Cream cheese.
- 171 Cadman, R., St. Mary's.—Cream cheese.
- 172 Crawford Bros., Ulverstone.—Butter.
- 173 Johnson, E., Green Ponds.—Butter.
- 174 Lohrey, St. Mary's.—Cheese.
- 175 Peart, G. Table Cape.—Butter.
- 176 Stewart, R., Torquay.—Cheese.

CLASS 69.—MEAT AND FISH.

- 177 Don Trading Co.—Hams and bacon.
- 178 Joyce, J., Launceston.—Hams and bacon.
- 179 Peart G., Table Cape.—Hams and bacon.
- 180 Pratt, H. A., Formby.—Hams and bacon.
- 181 Wacksmuth, R.—Hams and bacon.

CLASS 70.—VEGETABLES AND FRUIT.

- 182 Alomes, J., South Arm.—Apples (varieties).
- 183 Benjafield H., New Town.—Dried fruit.
- 184 Bird, Hon. B. S., Hobart.—Apples (varieties).
- 185 Borwick, P., Wynyard.—Apples (varieties).
- 186 Cresswell, C. F., Hobart.—Potatoes, etc.
- 187 Don Trading Co.—Potatoes, etc.
- 188 Geeves, O., Geeveston.—Apples (French crabs).
- 189 Gill, H. H.—Apples.
- 190 Hickman, O., Augusta-road.—Apples (varieties).
- 191 Hickman, R., Augusta-road.—Apples (varieties).
- 192 Johnson, E., Green Ponds.—Potatoes.
- 193 Lipscombe, H., and Sons, Hobart.—Potatoes, etc.
- 194 Little, W., Augusta-road.—Apples.
- 195 Meredith, J., Cambria.—Walnuts and filberts.

- 196 Morgan, C., Hobart.—Apples.
- 197 Mountain, H., Huon.—Apples (varieties).
- 198 Peart, G., Table Cape.—Potatoes.
- 199 Phegan, A., Hamilton-on-Forth.—Potatoes.
- 200 Scott, J., Forth.—Apples (varieties).
- 201 Shekleton, A., Table Cape.—Potatoes, mangolds, turnips.
- 202 Shoobridge, R., Glenorchy.—Apples.
- 203 Shoobridge, W., New Norfolk.—Apples.
- 204 Tilyard, J., O'Brien's Bridge.—Apples.
- 205 Tunbridge, J., Copping.—Potatoes.
- 206 Wacksmuth, R. G., Launceston.—Potatoes.
- 207 Wood, T., Augusta-road.—Apples.
- 208 Wright, W. H., Northdown.—Potatoes.

CLASS 71.—CONDIMENT AND STIMULANTS, SUGAR AND CONFECTIONERY.

- 209 Anderson, C., Launceston.—Tomato sauce.
- 210 Barwick, J., Tea Tree.—Salt.
- 211 Burt, R. R., Hobart.—Jams, jellies.
- 212 Hawkins and Co., Shipwrights' Point.—Jams.
- 213 Hickman, R., Augusta-road.—Jams.
- 214 Jenkins, Mrs. C., Penguin.—Jams, jellies, etc.
- 215 Jones, Mrs., Augusta-road.—Vegetable-marrow marmalade.
- 216 Knight, C. E., and Co., Hobart.—Jams.
- 217 Tasmanian Confectionery Co., Hobart.—Confectionery.

CLASS 72.—FERMENTED AND DISTILLED DRINKS.

- 218 Cascade Brewery Co., Hobart.—Ale, porter, etc.
- 219 Nicholls, G., Davey-st.—Dandelion prize ale, beer, etc.
- 220 Weaver and Co., Hobart.—Dandelion ale.

XI.

Sanitation, Medicine, Hygiene, and Public Relief.

CLASS 74.—APPARATUS AND PROCESSES FOR HEATING AND LIGHTING.

- 221 Brandwood, J., Launceston.—Iron safe, boiler, and oven.

- 222 Davis, C., Hobart.—Colonial ovens, etc.

- 223 Green and Brown, Launceston.—Patent "Shamrock" gas kitchener.

XII.

Mining Industries—Machinery and Products.

CLASS 82.—APPARATUS AND PROCESSES OF THE ART OF MINING AND METALLURGY.

- 224 Briseis Tin Mining Co.—Model of tin.
225 Kayser, F. W., Waratah.—Model of crushing and ore-dressing plant.

CLASS 83.—MINING AND METALLURGY.

- 226 Alexander, C., Wyniford.—Tin crystal.
227 Anchor Tin Mining Co.—Tin ore.
228 Bell, J. R., Ringarooma.—Tin, etc.
229 Bell's Section, Hazlewood.—Silver-lead ore.
230 Ben Lomond Tin Co.—Lode tin.
231 Bismarck Tin Mining Co.—Lode and alluvial tin.
232 Black Prince Prospecting Association.—Silver-lead ore.
233 Briseis Tin Mining Co.—Specimens from the surface to the bed rock on the line of the deep lead.
234 Comstock Prospecting Association.—Silver-lead ore.
235 Cornwall Coal Co., Fingal.—Section coal seam now being worked.
236 Cream Creek Tin Co.—Tin ore.
237 Cumberland Tin Mining Co.—Specimens from lode at a depth of 350 feet.
238 Dale, J. W., Penguin.—Silver ore from Penguin.
239 Dickenson, P., Gladstone.—Specimens of alluvial and lode tin, Mount Cameron district.
240 Evershed, A., Launceston.—Pig iron and asbestos.
241 Full Moon Tin Mining Co.—Collection of tin and tin-stone from mine.
242 Fry, G., Branxholm.—Mineral specimens.
243 George's Bay Prospecting Association.—Tin ore.
244 Great Republic Tin Mining Co., Ben Lomond.—Lode tin.
245 Grubb, W. C., Bros., Hobart.—Port Cygnet coal.
246 Hacket, J. H., Lefroy.—Antimony from Lefroy.
247 Hall, C. H., Waratah.—Specimens tin ore, silver ore, lode formation from Hazlewood.
248 Hazlewood Prospecting Co. (No. 1).—Silver-lead ore.
249 Hazlewood Silver-lead Co.—Silver-lead ore.
250 King River Gold Mining Co.—Specimens of quartz (gold-bearing).

- 251 Markey, M., Formby.—Quartz specimens, "Old Union," Mangaia, etc.
252 Marsh, W. R., Launceston.—Asbestos, antimony, copper, iron, tin, silver, gold.
253 Mount Bischoff Tin Mining Co.—Two collections various specimens ores, etc., from the mine; photos of different parts of mine.
254 Mount Nicholas Coal Co., Fingal.—Section of coal seam now being worked, 6 ft. 1 $\frac{1}{4}$ in. x 3 ft. 9 in.; also samples from other seams.
255 Mystery Silver Mining Co.—Silver-lead ore.
256 North Tasmania Hydraulic Tin Mining Co.—Alluvial tin.
257 Proctor's Prospecting Association.—Silver-lead ore.
258 Penguin Prospecting Association.—Iron ore, galena, etc.
259 Princess River Gold Mining Co.—Quartz specimens.
260 Rangatira Prospecting Association.—Silver-lead ore.
261 Scamander Silver-lead Co.—Silver ore.
262 Scott, W. F., and Co.—Coal from Sandfly.
263 Sherwood Colliery.—Coal.
264 Silver Bell Silver Mining Co.—Silver-lead ore and bullion.
265 Silver Harp Prospecting Association.—Silver-lead ore and bullion.
266 Silver King Prospecting Association.—Silver-lead ore and bullion.
267 Silver Queen Prospecting Association.—Silver-lead ore and bullion.
268 St. Paul's Tin Syndicate.—Tin (alluvial).
269 Spong, T. W., Hobart.—Alluvial tin.
270 Stanhope Tin Mining Co., Waratah.—Collection of tin ore, etc.
271 Stormont, J., Ross.—Petrified wood.
272 Tait's Prospecting Association.—Silver-lead ore and bullion.
273 Tasmanian Chromic Paint and Colour Co.—Iron, asbestos, etc.
274 The Hobart Mineral Association.—Copper ore, etc.
275 Tasmanian Mineral Trophy, consisting of tin ingots, splashed tin from Mount Bischoff Co., minerals supplied by other companies in Tasmania.
276 Thureau, G.—Minerals.
277 Trustees Tasmanian Museum.—Minerals, etc.
278 The Dial Range Prospecting Association, Leven.—Pyrites.
279 Tasmanian Gold Mining Company.—Gold, blocks of quartz.
280 Trustees Mechanics' Institute, Launceston.—Mineral Cabinet.
281 White, A. D., Ltd.—Mineral exhibits.

INTRODUCTION TO THE WESTERN AUSTRALIAN COURT.

IN order to form a just conception of the products represented in the Court devoted to Western Australia, it is necessary to bear in mind that, although the colony has been founded fifty-nine years, its population only amounts to 40,000, scattered over a territory which, in round figures, covers 1,000,000 square miles. It is eleven times the size of New Zealand, and eight times that of the United Kingdom. When the infinite possibilities of a country so very sparsely settled are taken into account, the designation applied to Western Australia as "the Cinderella of the Australian group" is not inappropriate.

About 750,000 square miles of Western Australia are still unutilised, and in great part unexplored. On a rough estimate, the whole coast of the colony, from Eucla in the south to Cambridge Gulf in the north, may be said to be settled for 50 to 200 miles inland, although a large section of territory taken up, especially in the Kimberley and Eucla districts, has not yet been stocked. North of Champion Bay the lands occupied are held on lease as pastures; but some degree of cultivation extends to Geraldton, in latitude 29, which is situated in the heart of a flourishing agricultural district. The returns of 1886 showed that in that year there were 86,250 acres under cultivation, including vineyards and kitchen gardens. The wheat crop covered 24,043 acres; hay, 25,718 acres; barley, 5185 acres; and oats, 1766 acres. The squatting leases and licenses in the same year numbered 6469, extending over 129,219,079 acres, yielding only £73,863 in rent.

The principal industry is wool-growing. Good agricultural land, although not continuous in any district, occurs in patches which are often extensive. But the productiveness even of ground which appears nearly pure sand is astonishing, and vines, with garden produce, flourish in it luxuriantly. Already good wine is produced, although not of a uniform standard, and there can be no doubt that Western Australia is destined eventually to be a great wine-producing country.

As regards the woods of the colony, it is estimated that white gum covers 10,000 square miles; tuart, 5000; red gum, 8000; York gum, 2400; Karri, 2300; and jarrah, 14,300 square miles. Referring to the two species last named, they are both assigned twelve years by English Lloyds for ship building purposes, being the next highest classification in the Underwriters' list to teak, which is assigned fourteen years. The jarrah, a species of eucalyptus, best known as Western Australian mahogany, is in great demand for railway sleepers and building purposes in countries infested by the white ant, for furniture manufacture, and for all piles and bridges liable to be invaded by *teredo navalis*. It has been proposed to use it for paving London and other large European cities.

There is a fair demand for sandalwood, the principal destination of which is China, where it is used for incense purposes. Extensive deposits of guano have been discovered at the Lacedepe Islands, situate in 17 degs. S. lat. and 122 degs. E. long.; at Browse Island, and elsewhere.

The pearl fisheries become of increasing importance to the colony. In 1871 the value of shells exported did not exceed £12,895. In 1886 the quantity of pearl shells exported was 711½ tons, valued at £98,187, and pearls valued at £15,000. To these shipments may be added 1353½ tons of Shark Bay shells, valued at £6777. One pearl, supposed to be worth £1500, was found in 1875, and another found at Nicol Bay realised £715. In 1883, an extraordinary cluster of pearls, about the size of peas, were found firmly embedded together in the form of a cross. Banks of pearls, many miles long, have been discovered in Shark and Beagle Bays, the shells in these regions being those of the true pearl oyster.

The colony boasts enormous stores of undeveloped metallic and mineral wealth. Gold has been discovered in various parts of the country, but was not produced until 1886 in distinctly payable quantities. The indications of gold found in the beds of the tributaries of the Ord and Fitzroy Rivers induced the Government to declare a gold-field and appoint the necessary officials. Good hopes are still entertained of the Kimberley mines. Lead and copper exist in large quantities, especially in the northern districts. Contiguous to Northampton are several large copper mines that promise great results. The metal exports in 1886 comprised 611 tons of lead ore and 249 tons of copper ore. The former metal is traceable throughout an area of 5000 square miles, not including the Northern Territory proper, where large quantities of ore, yielding on an average 30 per cent. of pure metal, have been met with on the surface. Smelting works have been erected in Champion Bay, and the process of extracting has been commenced, with encouraging prospects of success. These operations have necessarily been checked by the depressed condition of the

London market; but the late recovery of values is certain to lead to a revival, especially of the copper industry. Iron ore has been discovered in inexhaustible quantities; and within twenty miles of Perth, on the Darling range, tin has been found, arrangements being in progress for working it.

The commerce of the colony continues to make steady progress. During 1886 the total imports reached £758,011, half that amount being credited to goods purchased from British colonies, and the balance, for the most part, from Great Britain. The exports for the same period were valued at £630,393. Of this total, shipments to the value of £505,331 were sent to the parent country, which consisted principally of wool, 6,133,917 lbs. of fleece realising £332,578.

The public revenue from all sources for the year was £338,564, and the expenditure £394,675. There are four banks in Western Australia, whose collective paid-up capital at the date referred to was £3,690,800, their liabilities being £1,021,434, and their assets £1,627,901. The dividends paid by these institutions ranged from 16 to 20 per cent. The proposal of the Crown to grant responsible government to a colony having so limited a population is viewed differently by various sections of the community; but it is hoped that eventually the contemplated change in the form of Government may be attended with an accession of material and social prosperity.

WEST AUSTRALIAN EXHIBITS.

II.

Education and Instruction—Apparatus and Processes of the Liberal Arts.

CLASS 15.—MAPS, AND GEOGRAPHICAL AND COSMOGRAPHICAL APPARATUS.

- 1 West Australian Land Co., The, Albany, W.A.—Map.

VI.

Raw and Manufactured Processes and Products.

CLASS 41.—PRODUCTS OF THE CULTIVATION OF FORESTS, AND OF THE TRADES APPERTAINING THERETO.

- 2 Davies, M. C., Swanston-st., Melbourne.—Log of jarrah timber.

3 M'Neil, N., and Co., Jarradale Timber Station, W.A.—Jarrah timber, in planks and logs.

- 4 Yelverton, H. J., Quindalup Saw Mills, Geography Bay.—Jarrah timber, in planks. Agents : Dalgety and Co. Limited, Melbourne.

VII.

Machinery, Apparatus, and Processes used in the Mechanical Industries.

CLASS 59.—CARRIAGES AND WHEELWRIGHTS' WORK.

- 5 Davies, M. C., Swanston-st., Melbourne.—Timber whim fitted complete for carrying large logs, as used in Western Australia.

CLASS 64.—NAVIGATION AND LIFE SAVING.

- 6 West Australian Steam Navigation Co., Fremantle.—Highly finished and beautifully constructed model of the new s.s. "Australind."

VIII.

Alimentary Products.

CLASS 69.—MEAT AND FISH.

- 7 Peel Inlet Preserving Works.—Tinned fish.

INTRODUCTION TO THE GERMAN COURT.

No foreign Government has more energetically co-operated to make the present Exhibition successful than that of Germany, so far as that object could be promoted by the enterprise and taste displayed in the construction and decoration of the court assigned to her exhibits, and the interesting variety shown in the collection which German manufacturers, artists, and merchants have contributed. The Spartan virtues of the Germans of his day were favourably noticed by Tacitus; and it is recorded, to the honour of their descendants, that amidst the numerous changes of dynasty and modifications of government to which the country has been subjected since Charlemagne was crowned "Kaiser," upwards of 1000 years ago, they have retained those Teutonic attributes of rugged strength, irrepressible vitality, and indomitable persistence; at the same time availing themselves more completely than some contemporary nationalities of those treasures of science, art, scholarship, and mechanical resource, which have placed them in the front rank of modern civilisation. With such conspicuous racial elements, so long and vigilantly cherished, it is hardly surprising that the population of Germany should have more than doubled since 1816, with an annually increasing surplus in births over deaths.

CONSTITUTION.—The Presidency of the Confederacy belongs to the King of Prussia, who bears the title of "German Emperor," and represents the Empire internationally. The Emperor holds the supreme command of the Imperial army and navy. His orders and enactments are published in the name of the Empire, and require the countersignature of the Imperial Chancellor (Reichskanzler). The Emperor appoints the Imperial officials. The Empire has the right of legislation, and this right is exercised by the Federal-Council (Bundesrath) and the Imperial Diet (Reichstag). The Emperor convenes the Federal Council and the Imperial Diet annually. The Federal Council consists of the representatives of the members of the Confederacy, who have fifty-eight votes, distributed according to the size of the several confederate States. The Imperial Chancellor is President of the Federal Council. The Imperial Diet is elected by universal and direct suffrage, every German over twenty-five years of age being entitled to vote.

Any German can be elected a member of the Reichstag who is twenty-five years of age, and has for at least one year been a subject of a State belonging to the Empire. One member of the Reichstag is elected for each 100,000 inhabitants; but a Confederate State, the population of which is below that number, also sends a member to the Reichstag.

The Reichstag consists of 397 members; its transactions are public, and its legislative period is three years. Its members receive neither payment nor compensation.

The administration of the Empire is centred in the hands of the Chancellor of the Empire, who watches over the execution of the Imperial laws in the name of the Emperor, and guides the entire administration. Under his direction operate, as supreme Imperial offices, the Foreign Office, the Imperial Home Office, the Admiralty, the Imperial Office of Justice, the Imperial Treasury, the Imperial Railway Office, the Imperial Office of Accounts, the Administration of the Imperial Fund for Invalid Soldiers and Sailors, the Imperial Post-Office, the Imperial Office for the Administration of the Imperial Railways, the Trustees of the Imperial Bank.

The administration of the affairs of the Land Army is left to the various War Offices of Prussia, Bavaria, Saxony, and Württemberg.

ARMY AND NAVY.—The strength of the Imperial army is fixed by law at 468,409 men. The war strength of the army is more than treble this number, being raised to 1,567,600 officers and men, 312,730 horses, and 2958 guns. If there be added the Landsturm and the one-year volunteers, the total war strength of trained soldiers would be 2,650,000. The Imperial Navy, in 1887-88, was manned by 15,244 men, including 897 officers. On 1st April, 1887, it consisted of 101 vessels, with 519 guns, 182,102 tons burden, and 167,805 indicated horse-power.

POPULATION.—The population of the twenty-six States of which the Empire is composed was in December, 1885, 46,885,704; females being nearly 1,000,000 in excess of males. This total was scattered over an area of 211,196 square miles, the average density of population being in the proportion of 221 persons per square mile. During the last census period the increase of population was greatest in Hamburg, Reuss, Schleiz and Greiz, Brunswick, Anhalt, Lübeck, and Bremen. But in the two Mecklenburgs and in Alsace-Lorraine decrease occurred. The growth of population is more remarkable when we take into account the large yearly tide of emigration, which in recent years has assumed greater proportions in Germany than in any other European country. Emigrants *via* German ports and Antwerp numbered, in the five years between 1882 and 1886, 193,896, 166,119, 143,586, 103,642, and 76,687 respectively. Compared with the vast numbers of Germans annually pouring into the United States, the numbers proceeding to other foreign countries are, at best, only fractional. During the sixty-three years from 1820 to 1883, the total emigration of Germans to the United States numbered over three millions, one-third having emigrated during the last twelve

years. Taking each passenger at a money value of £10, it is estimated that Germany has sustained a total loss of £30,000,000 by this wholesale departure of people from her shores. About 19,000,000 of the population are engaged in agricultural and pastoral pursuits, over 16,000,000 in mining, metallic, and other industries, 4,500,000 in trade and commerce, 2,250,000 in professional vocations, nearly 1,000,000 in domestic service, and over 750,000 in forestry, hunting, and fishing. No less than twenty-one Universities in the country were attended by 30,272 students, who were taught by 1251 professors and tutors.

REVENUE AND EXPENDITURE.—The total Imperial expenditure has risen, according to budget estimates, from £29,362,590 in 1884 to £37,260,871 in 1888. This is defrayed from revenues arising from customs, certain branches of excise, and the profits of the post and telegraphs. But a deficit, when it occurs, is made up by the individual States of Germany, which are assessed in proportion to population. The estimated expenditure for the financial year ending 31st March, 1889, is £46,084,457, which large sum is due, mainly, to extraordinary outlay on army requirements. On 1st October, 1887, the total funded debt of the Empire was estimated at £28,818,600, and to cover large impending deficits further loans will be necessary. This, of course, is in addition to the annual expenditure of the separate States, which, in the case of Prussia alone, has increased from £32,876,017 in 1878, to £65,141,422 in 1887. The total debt of that kingdom, in the budget for 1887-8, was set down at £209,095,650, which is equal to £7 7s. 6d. per head of the population.

INDUSTRIES.—The following table supplies particulars of the leading skilled trades in the empire at the latest industrial census:—

Class of Business.	Altogether.		Businesses with more than five Assistants.	
	Businesses.	Number of Persons.	Businesses.	Persons.
1. Landscape and market-gardening; nursery gardens	17,699	41,560	716	12,380
2. Professional breeding of cattle; fishery	25,395	25,858	89	1,153
3. Mines, metallurgy, and salt-works; turf-digging	8,144	430,134	2,448	423,650
4. Industry in stones and earths	59,772	349,196	10,415	251,286
5. Metal-working	177,847	459,713	5,760	161,588
6. Machines, instruments, and apparatuses	94,807	356,089	4,543	228,524
7. Chemical industry	10,438	71,777	1,304	54,910
8. Additional forest-products, illuminating materials, grease, oil, and varnish	10,314	42,705	1,237	30,503
9. Textile industry	406,574	910,089	9,141	469,516
10. Paper and leather	66,307	221,688	3,786	114,395
11. Wood and carving materials	284,502	469,695	5,488	102,007
12. Articles of food and luxuries	288,771	743,881	10,532	275,229
13. Clothing and cleaning	949,704	1,259,791	7,169	116,275
14. Building trades	184,698	533,511	12,654	274,487
15. Polygraphical trades	10,395	70,006	2,351	53,003
16. Artistic trades	8,669	15,388	300	3,762
17. Commercial establishments	616,836	838,392	12,226	162,412
18. Insurance businesses	32,463	11,824	295	5,446
19. Traffic businesses	99,321	175,246	2,303	60,018
20. Lodging and refreshment	257,645	314,246	4,406	51,267
	3,609,801	7,340,789	97,163	2,851,811

Production of beetroot sugar, import and export of sugar:—

Year.	Number of Factories.	Quantity of Green Root Consumed.	Produce of Raw Sugar.	Amount of Tax paid to Government.	Import of Sugar.	Export of Sugar.
1884-85	408	TONS. 10,402,688	TONS. 1,123,030	M. 166,443,012	TONS. 5303	TONS. 673,727
1885-86	399	7,070,317	808,105	113,125,068	5574	500,321
1886-87	401	8,306,671	985,628	141,213,410	4678	661,128

MINERAL AND METALLIC RESOURCES.—The coal mines of Germany have developed immensely during the last half century. From 2,901,713 metric tons in 1838 the output of coal, exclusive of lignite, has increased to 58,020,000 tons in 1886, valued at £60,500,000. The coal raised in Prussia amounts to 93 per cent. of the total coal product of the German Empire, while lignite is mainly worked in Saxony. Considerable quantities of iron are also raised in Westphalia, Silesia, Hanover, and Hesse-Nassau. The total amount of iron extracted in 1886 was 3,558,000 metric tons. Copper, zinc, and lead are also obtained, and the total value of all mining products, excluding salt, in 1886 was upwards of £78,000,000. Mining and smelting iron are carried on largely in Bavaria.

AGRICULTURE AND STOCK.—Among leading agricultural products clover, hay, &c., figured most prominently, 25,674,776 metric tons (of 2500 lbs. each) being harvested in 1886-7; 25,143,029 tons of potatoes, 4,855,894 metric tons of oats, 6,092,849 metric tons of rye, 2,337,206 metric tons of barley, and 2,666,423 metric tons of wheat were also produced. Yet, of barley, wheat, oats, and rye, Germany imports more than she exports; potatoes being the only important crop of which the export exceeds the import. The product of wine for the period was about 25,000,000 gallons; 7,823,000 tons of beet, besides molasses and raw sugar, were devoted to the manufacture of sugar, which yielded 1,418,900 tons raw and refined sugar; 49,000 acres were under tobacco, and produced 81,166,000 lbs., valued at £1,513,788. In the cultivation of this article 176,718 persons were employed. Of the whole area of Germany 94 per cent. is classed as productive and only 6 per cent. as unproductive.

The number of sheep was 19,185,362; of cattle, 15,785,322; of horses, 3,522,316; of swine, 9,205,791; and goats, 1,911,748.

In no country is forestry conducted according to more scientific methods under the care of the State. In South and Central Germany 30 to 38 per cent. of the surface is covered with forests, and in parts of Prussia 20 per cent. From her forests and domains alone Prussia receives a revenue of about £4,000,000 per annum.

RAILWAYS, TELEGRAPHES, AND POST OFFICES.—The railways of the Empire, completed and open for traffic, in 1887 were 24,197 English miles in length. Of these lines 21,112 miles belonged to, and 181 miles of private lines were worked by, the State. The remainder are owned by private companies and worked by them, but are to be bought up by the State. To the close of 1886 the total capital expended on German railways amounted to £473,630,300. The receipts for the same year were £199,738,600, and the expenses £114,955,000, leaving a surplus of £54,783,600, or 4·42 per cent. on the capital expended.

The length of telegraph lines in the Empire at the same period was 53,874 miles, and of telegraph wires, 191,272 miles. The total number of telegraphic despatches in 1886 was 20,510,294. The Imperial post-office conveyed and distributed 858,587,550 letters, 261,056,660 post-cards, 245,618,370 stamped wrappers, 578,611,143 journals, and 180,492,148 registered packets and money orders.

IMPORTS AND EXPORTS.—The leading articles imported stand in the following order of their amount and value:—Wool, raw cotton, raw coffee, woollen yarn, raw silk, raw hides, horses, petroleum, rye, swine, and barley. The exports comprise chiefly unprinted cotton, mixed silk and cotton cloth, sugar, leather goods, haberdashery, coal and coke, wooden goods, paper, coarse cotton cloth, aniline dyes, and hops. The aggregate value of German imports in 1886 was £147,248,300, and of exports, £152,568,500. The foreign commerce of the Zollverein was largest with the United Kingdom, although the tendency on both sides of the international account has been during recent years for the volume of trade to diminish. At present, however, imports are greater from England into Germany than from Germany into England.

Estimated value of imported and exported merchandise in 1884-1886 :—

Year.	Import.		Export.	
	Value in thousands of marks.		Value in thousands of marks.	
1884	..	4,870,392	..	4,861,183
1885	..	4,373,981	..	4,322,076
1886	..	4,564,881	..	4,450,523

Estimated value of merchandise imported directly from Australia to Hamburg :—

1880—76,800 M	1882—2,279,000 M	1884—1,298,700 M
1881—217,510	1883—1,635,260	1885—3,807,864

To Bremen :—

1881—232,705 M	1883—769,801 M	1885—289,761 M
1882—691,368	1884—10,050	

Estimated value of merchandise exported to Australia from Bremen :—

1881—95,789 M	1883—101,176 M	1885—359,716 M
1882—89,803	1884—366,928	

Weight of merchandise exported to Australia from Hamburg :—

1880—4,448,700 kg	1882—10,005,300 kg	1884—26,517,700 kg
1881—8,913,900	1883—13,876,500	1885—45,777,400

This Catalogue is printed with

GERMAN EXHIBITS.

[All Exhibits under Section I. are transferred to the Fine Arts Section of the Catalogue, where they will be found under heading "GERMANY."]

II.

Education and Instruction, Apparatus and Processes of the Liberal Arts.

Class 6.—Education of Children, Primary Instruction, Instruction of Adults.

- 1 **Elders**, —, Huelm, near Goch (Rheingau).—Specimens of work done by pupils of a country school. Agents: Frederick Holtz, 28 Queen-st., Melbourne.
- 2 **Hirt, Ferdinand, & Sohn**, Leipsic.—Wall diagram for primary instruction, representing principal forms of the surface of the earth.
- 3 **Kunz, M.**, Illzach, near Mülhausen (Els. Lothr.).—Various maps, globes, appliances for teaching the blind, &c.
- 4 **Roth, Emil**, Giessen.—Reading-books, reading and writing spelling-books, for schools.

Class 7.—Organisation and Appliances for Secondary Instruction.

- 5 **Gaebler, Eduard**, Leipsic.—Hand and wall maps for schools.
- 6 **Groos, Julius**, Heidelberg.—Books for the study of foreign languages according to Gaspey-Otto-Sauer's method.
- 7 **Kunz, M.**, Illzach, near Mülhausen (Els. Lothr.).—Books on geographical instruction, maps.

Class 9.—Printing and Books.

- 8 **Breitkopf & Hartel**, Leipsic.—Music books and sheet music; music paper; proofs of music printing.
- 9 **Glaser, F. C.**, Berlin.—"Glaser's Annalen für Gewerbe und Bauwesen" (a journal of industry and architecture).
- 10 **Haendcke, H. (of the firm Haendcke & Lehrkuhl)**, Hamburg.—Dictionaries: English-German, German-English.
- 11 **Hedeler, G.**, Leipsic.—Books and journals.
- 12 **Klinkhardt, Julius**, Leipsic.—Types and specimens of typographic, lithographic, and heliotype printing. Agent: Pfaff, Pinschot & Co., 13 Flinders-lane W., Melbourne.
- 13 **Peters, C. F.**, Leipsic.—Music books.
- 14 **Pustet, Friedrich**, Regensburg.—Missals, breviaries, hymn-books, Herzenrother's "Primitive Christianity," "Shade and Light," "The First Christmas." Agents: Bernhard King & Sons, 11 Lonsdale-st. East, Melbourne.
- 15 **Roder, C. G.**, Leipsic-Reudnitz.—Music engravings in artistic execution.
- 16 **Schramm, Christoph**, Offenbach a. M.—Portfolio, with illustrated journals and chromos. Agent: J. Levy, 15 Flinders-lane W., Melbourne.

17 **Stankiewicz, P.**, Buchdruckerei, Berlin.—Publications: Journal, "Union;" "Information about legally-protected Trade Marks in Germany."

Class 10.—Stationery, Bookbinding, Painting, and Drawing Materials.

- 18 **Bolle, Wilhelm**, Berlin.—Photographic, scrap, and poetry albums.
- 19 **Bormann, G.**, successor, Berlin.—Moist and dry artist's colours, painting and drawing utensils, indelible ink for architects, &c.
- 20 **Clouth, Franz**, Rheinische Gummiwaaren-fabrik, Nippes, Cologne.—Erasing rubbers, red and aromatic elastic bands.
- 21 **Edler & Krische**, Hannover.—Account books. Agents: Pfaff, Pinschot & Co., 13 Flinders-lane W., Melbourne.
- 22 **Faber, Johann**, manufacturer of lead and coloured pencils, ink and pencil erasers, drawing requisites, etc., Nurnberg, Bavaria; London, 12 Lovell's-court, Paternoster-row, E.C.; Paris, 9 Faubourg St. Denis. Represented by William Detmold, 8 Flinders-lane East.
- 23 **Fiegel, Adolph**, Berlin.—Tissue and printing papers, sanitary paper, and holders. Agents: Ostermeyer, Dewez & Co., 131 Collins-st. W., Melb.
- 24 **Gerhold & Thon**, Neumunster (Holstein).—Paper and paste board.
- 25 **Haenle, Leo**, Munich.—Gold, silver, tinfoil, and other papers; gold, silver, and fancy borders. Agents: Pfaff, Pinschot & Co., 13 Flinders-lane W., Melbourne.
- 26 **Hannoversche Caoutchouc, Gutta-percha, und Telegraphen Werke**, Linden vor Hannover.—Erasing rubber.
- 27 **Haselhorst, Carl**, Dresden.—Inks, shoe-blacking, leather-dressing, polishing paste. Agents: Ostermeyer, Dewez & Co., 131 Collins-st. W., Melbourne.
- 28 **Hochstein & Weinberg**, Berlin.—Glazed paper and cardboard. Agent: Frederick Holtz, 28 Queen-st., Melbourne.
- 29 **Mental, Aug.**, Berlin S.—Stencil plates and requisites for same.
- 30 **Muskauer Holzstoff-und Papierfabrik C. Schreck**, Berlin.—Various wrapping-paper, in rolls. Agents: Palmer, Scott & Co., 135 Collins-st. W., Melbourne.
- 31 **Proschohl, A. H., & Co.**, Grafenthal, Thuringia.—Slates and slate-pencils. Agents: Schreiber & Schaefer, 8 Flinders-lane E., Melbourne.
- 32 **Schwanhausser, vorm. Grossberger, & Kurz**, Nuremberg.—Pencils of every description.
- 33 **Schwerdtfeger, Ernst.**, Bernburg.—Pen-holders.

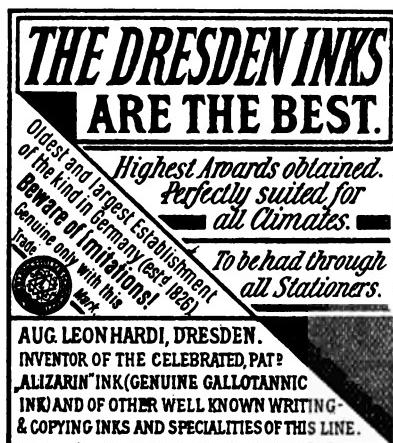
Sole Agents for Colonies: **PFAFF, PINSCHOF & Co.**, Melbourne.

- 34 Leonhardi, Aug.,** Dresden.—Writing and copying inks, ink powders; coloured, indelible, lithographic, printing inks, &c. Agents: Pfaff, Pinschow & Co., 13 Flinders-lane W., Melbourne.

LATEST AWARDS:

AMSTERDAM, 1883,
GOLD MEDAL.

ADELAIDE, 1887,
FIRST ORDER OF MERIT
AND MEDAL.



35 Sieler & Vogel, Leipsic and Berlin.—Sample books of different sorts of artists' printing and writing paper.

36 Sperling, H., Leipsic.—Copybooks and samples of book-covers.

37 Stoess, Louis, Chemnitz.—Indelible safety writing and printing inks

38 Teichmann, Hugo (successor, F. W. Richter), Leipsic.—Fancy paper articles, lanterns of paper.

39 The Nuremberg Pencil Factory (Dünkelbücher & Co.), Nuremberg.—Lead, coloured, and patent pencils.

40 Weigel, Martin, Nuremberg.—Painting brushes; brushes for medical and technical purposes. Agents: Schreiber & Schaefer, 6 Flinders-lane W., Melbourne.

41 Wilmanns, Miss Marie, Hannover.—Paper lamp-shade, with dried flowers, &c. Agents: Pfaff, Pinschow & Co., 13 Flinders-lane W., Melb.

Class 11.—General Application of the Arts of Drawing and Modelling.

42 Albert, Joseph, Munich.—Albertotype.

43 Holm, Heinrich, Schenefeld, Holstein.—Painted silk flag.

44 Wilhelmii, Dr. F., Leipsic.—Modelling clay. Agent: J. Levy, 15 Flinders-lane W., Melbourne.

Class 12.—Photographic Proofs and Apparatus.

45 Anschutz, Ottomar, Lissa, Posen.—Instantaneous photographs, single and in series.

46 Bette, Paul, Berlin.—"The late Emperor of Germany, William I., on his Death-bed."

47 Berlin Photographic Co., Berlin.—Photos and photogravures of paintings by modern artists.

48 Bieber, E., Hamburg.—Plain and coloured photographs.

49 Dresdener Albumin Papierfabrik Aktiengesellschaft, Dresden.—Albumenized papers and photographs. Agent: F. Holtz, 28 Queen-st., Melbourne.

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FOR

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AND

NEW ZEALAND:

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Sydney,

Adelaide

Port Adelaide

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50 Ellender, Fritz, 'Cologne.—Photographs. Agents: Pfaff, Pinschow & Co., 13 Flinders-lane W., Melbourne.

51 Ernst, Carl, & Co., Berlin.—Photographic papers, cards, &c.; complete outfit for photographers' studios. Agents: Pfaff, Pinschow & Co., 13 Flinders-lane W., Melbourne.

52 Fechner, Wilhelm, Berlin.—Portrait photographs, photographic studies of landscapes.

53 Federlein, Sigismund, Hannover.—Photographic frames. Agent: S. de Beer, Clark's Buildings, Bourke-st. West, Melbourne.

54 Formstecher, Julius, Offenbach.—Photographic papers and mounts.

55 Haake & Albers, Frankfurt a Main.—Decorative furniture for photographers' studios, photographic backgrounds.

56 Hanfstaengl, Franz, Kunstanstalt, München.—Photographs.

57 Kolby, Jo. Fried., Zwickau.—Collection of photographs.

58 Muller, Friedrich, Munich.—Photographs. Agents: Pfaff, Pinschow & Co., 13 Flinders-lane W., Melbourne.

59 Sachs, Joh., & Co., Berlin.—Chemicals, dry plates, photographic apparatus, and outfit for scientific expeditions.

60 Schroeder, Otto, Berlin.—Photographic apparatus, portable camera stand, hand trunk for cameras, &c. Agents: Pfaff, Pinschow & Co., 13 Flinders-lane W., Melbourne.

61 Schulz & Suck, Carlsruhe.—Photographs. Agents: Pfaff, Pinschow & Co., 13 Flinders-lane W., Melbourne.

62 Schuster, Rud., Berlin.—Heliogravures and photogravures, in frames.

63 Stirn, Rudolf, Berlin S.—Concealed photographic pocket camera.

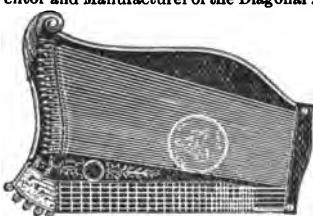
64 Suss, Paul, Dresden.—Cardboards and mountings. Specialty—Photo. cartoons, with bevelled gilt edges.

65 Unger & Hoffmann, Dresden.—Photographic negatives on gelatine dry plates, specimens of photographs. Agent: Frederick Holtz, 28 Queen-st., Melbourne.

66 Vereinigte Fabriken Photographischer Papiere, Dresden.—Samples of albumenised paper and photographs.

Class 13.—Musical Instruments.

- 67 Apollo Pianoforte Manufactory**, Dresden.—Exhibit. Agents: E. Samuel & Co., 43 Flinders-lane West, Melbourne.
- 68 Bechstein, C.**, Berlin.—Grand and upright pianos. Represented by Messrs. Nicholson & Co., of 46 and 47 Collins-st. E., and also of King and George-sts., Sydney, who hold the sole agency for all the colonies, Tasmania, and New Zealand, for these superb pianos.
- 69 Berdux, V.**, Heilbronn.—Mignon grand piano, with iron frame and repetition action; upright piano, with iron frame, &c.
- 70 Biese, Wilh.**, Berlin.—Overstrung upright drawingroom pianos. Agent: A. Benjamin, 21 Little Collins-st. E., Melbourne.
- 71 Bluthner, Julius**, Leipzig.—Full concert grand piano; boudoir grand piano, and cottage pianos. Agents: W. H. Glen & Co., 21 & 23 Collins-st. E., Melbourne.
- 72 Compagnie Concordia, Menzel & Berndt**, Berlin.—Various upright pianos. Agents: Pfaff, Pinschot & Co., 13 Flinders-lane W., Melbourne.
- 73 Deesz, Julius**, St. Johann, Saarbrücken.—Upright pianos.
- 74 Ecke, Carl**, Berlin.—Cross-strung upright piano.
- 75 Fahr, Albert**, Zeitz.—Upright pianos. Agents: W. H. Glen & Co., 21 and 23 Collins-st. East, Melbourne.
- 76 Felten & Guilleaume**, Mülheim on the Rhine.—Patent steel music wire. Agents: W. F. Walker & Co., 14 Flinders-lane West, Melbourne.
- 77 Feurich, Julius**, Leipzig.—Grand and upright pianos. Agents: Allan & Co., 17 Collins-st. East, Melbourne.
- 78 Fischer & Fritzsch**, Leipzig.—Upright piano and grand piano.
- 79 Foerster, August**, Löbau, Saxony.—Upright pianos.
- 80 Gerstenberger, J.**, Liegnitz.—Upright pianos of various constructions in walnut.
- 81 Gors, R., & Kallmann**, Berlin.—Grand and upright pianos. Agents: E. Samuel & Co., 43 Flinders-lane W., Melbourne.
- 82 Grand, A.**, Berlin.—Upright pianos.
- 83 Grotrian, Helfferich, Schulz Th. Steinweg Nachf.**, Brunswick.—Saloon concert-grand and upright pianos.
- 84 Gunther, C., & Sohn**, Kirchheim, Teck.—Grand piano in black, with repetition action; upright piano in walnut. Agents: Allan & Co., 17 Collins-st. East, Melbourne.
- 85 Haupt C. F.**, 10 Haupstrasse, Dresden.—Inventor and Manufacturer of the Diagonal Zither.



Most important invention of modern times. Easily played, beautiful shape, and most excellent tone. Agent for Australia: Carl Böhme, Lansdowne Villa, Ferrars-street North, South Melbourne.

- 86 Haake, E. F.**, Hannover.—Upright pianos in walnut and gold.
- 87 Hahmann, Gustav**, Berlin.—Saloon grand piano. Agents: Pfaff, Pinschot and Co., 18 Flinders-lane W., Melbourne.
- 88 Haslwanter, Johann**, Munich.—Zithers of every description; sounding-tables for zithers. Agents: Allan & Co., 17 Collins-st. East, Melb.
- 89 Hupfer, R., & Co.**, Zeitz, Saxony.—Cottage pianos, in walnut and walnut and gold.
- 90 Imhof & Mukle**, Vöhrenbach, Baden.—Orche-trion, with six barrels. Agents: Feiss Brothers, 128 Chapel-st., Windsor, Melbourne.
- 91 Irmel, I. G.**, Leipzig.—Upright pianos, in the Renaissance style.
- 92 Kaim, F., & Sohn**, vorm. F. Kaim & Günther, Kirchheim u. Teck.—Concert grand, saloon grand, and upright pianos.
- 93 Kalbe, F. J.**, Berlin.—Accordeons, the "Imperial Accordeon." Agent: A. Benjamin, 21 Little Collins-st. E., Melbourne.
- TRADE MARK**
- 94 Kanhauser, G. & E.**, Stuttgart.—Upright pianos, in black and walnut.
Sole Wholesale Agents for Australasia: P. Falk & Co., 18 Little Collins-st. East, Melbourne.
Retail Agents for Melbourne: Anderson & Sons, Carlton.
- 95 Kaps, Ernest**, Dresden.—Pianos.
Sole Agents for the Australian Colonies: Messrs. Petsch, Döehling and Co., 2 Little Collins-street, Melbourne; 332 Kent-street, Sydney.
- 96 Knauss, Heinr., Sohne**, Coblenz.—Upright pianos. Agents: Pfaff, Pinschot and Co., 18 Flinders-lane W., Melbourne.
- 97 Kochendorfer, A. Fredr.**, 13 Market-street, Stuttgart, Zither and Chord Manufacturer.—Concert and Harp Zithers (newest make), magnificently full Tone, agreeably and easily played. Agents for Australia: Allan & Co., 17 and 19 Collins-street East, Melbourne.
- 98 Kriebel, H.**, Berlin.—Upright pianos.
- 99 Lenz, A.**, Berlin.—Upright concert piano, with full iron frame.
- 100 Liedcke, W.**, Berlin.—Upright concert piano, with repetition action.
- 101 Lipp, Rich., & Sohn**, Stuttgart.—Saloon grand piano, Mignon grand piano, upright pianos.
- 102 Loth, H.**, Berlin.—Upright cottage pianos, in walnut, and walnut and gold.
- 103 Lubitz, H.**, Berlin.—Upright cottage pianos, in walnut and in walnut and gold.
- 104 Manthey, W.**, vormals E. Thurmer, Berlin.—Overstrung upright cottage piano, in walnut.
- 105 Matz, H., & Co.**, Berlin.—Mignon pianos. Represented by Messrs. Nicholson & Co., of 46 and 47 Collins-st. E., Melbourne, and also of King and George Sts., Sydney, who hold the sole agency for all the colonies, Tasmania, and New Zealand and for whom these pianos are specially manufactured.
- 106 Mayer, J., & Co.**, Munich.—Grand and upright pianos.

- 107 Neumann, F. L., Hamburg.**—Saloon grand piano; overstrung upright pianos in several styles. Agents: Allan & Co., 17 Collins-st. East, Melbourne.
- 108 Neumeyer, F., Berlin.**—Pianos.
- 109 Otto, Louis, Düsseldorf.**—Set of quartette instruments, violins, violincello, and bows.
- 110 Pianofortefabrik "Euterpe," Albert Gast & Co., Berlin.**—Upright pianos.
- 111 Ramsperger, J., Stuttgart, Germany.**—Piano Manufactury, with machinery. Large exports to all parts of the world. Representatives: Allan & Co., 17 & 19 Collins-st. East, Melbourne.
- 112 Rissmann, C. C., Hannover.**—Upright pianos.
- 113 Rittmüller, W., & Sohn, Göttingen.**—Grand piano; upright pianos.
- 114 Ronisch, Carl, Dresden.**—Grand piano in walnut; upright pianos in walnut and ebony. Represented by Messrs. Nicholson & Co., of 45 & 47 Collins-st. E., Melbourne; and also of King & George Sts., Sydney, who hold the sole agency for all the colonies, Tasmania, and New Zealand, for these world-renowned pianos.
- 115 Rosener, F., Berlin.**—Mechanical upright piano in walnut and gold.
- 116 Rosenkranz, Ernst, Dresden.**—Upright pianos.
- 117 Scharff, Paul, Berlin.**—Upright pianos in imitation ebony and walnut. Agent: A. Benjamin, 21 Little Collins-st. E., Melbourne.
- 118 Scheel, Carl, Cassel.**—Various upright pianos. Agents: Allan & Co., 17 Collins-st. East, Melb.
- 119 Schiedmayer & Sohne, Stuttgart.**—Horizontal iron grand pianos and upright cottage pianos with full iron frames. Agents: Allan & Co., 17 Collins-st. East, Melbourne.
- 120 Schiedmayer Pianofortefabrik, vor-mals J. & P. Schiedmayer, Stuttgart.**—Grand and upright pianos. Agents: W. H. Glen & Co., 21 and 22 Collins-st. E., Melbourne.
- 121 Schilling, Fried., Stuttgart.**—Upright pianos.
- 122 Schmidt, P., & Sohn, Zeitz.**—Upright pianos. Agents: Allan & Co., 17 Collins-st. East, Melbourne.
- 123 Schwebchen, G., Berlin.**—Cross-strung upright and grand pianos.
- 124 Selinke & Sponnagel, Liegnitz.**—Two upright pianos in ebony and walnut.
- 125 Seiler, Ed., Liegnitz.**—Grand and upright pianos.
- 126 Sempert, Carl, Rudolstadt, Thuringia.**—Boudoir upright piano in the Renaissance style. Agents: Allan & Co., 17 Collins-st. East, Melb.
- 127 Spaethe, Wilhelm, Gera, Reuss.**—Upright pianos.
- 128 Stahl und Drahtwerk Roeslau, Roeslau, Bavaria, jointly with Gebr. Bongardt and Co.**—Cast-steel music wire.
- 129 Stichel, F., Leipsic.**—Upright pianos, especially constructed for export.
- 130 Strathmann & Joachim, Leipsic.**—Two pianos, two melodeons, "Phoenix," with perforated metal sheets.
- 131 Thurmer, Ferd., Meissen.**—Overstrung cottage pianos, with full iron frames, metal wrest planks, metal wrest bridges, ivory keys, &c. Agents: Allan & Co., 17 Collins-st. East, Melb.
- 132 Uebel & Lechleiter, Heilbronn a. N.**—Overstrung upright pianos, in walnut, with full iron frame.
- 133 Vogel, I. G., & Sohn, Plauen i. V.**—Upright and grand pianos, music stools.
- 134 Wagner, A., Dresden.**—Pianos.
- 135 Wagner, Hermann, C. Blaedels Nachf., Stuttgart.**—Cross-stringed upright piano, with transposition attachment. Agents: Allan & Co., 17 Collins-st. East, Melbourne.
- 136 Weber, F., Berlin.**—Upright pianos.
- 137 Wehage, W., Brunswick.**—Upright pianos, with crossed strings, full iron frames, the new Sordino-pianissimo regulator, &c.
- 138 Weidenslaufer, Theodor, Berlin.**—Cottage piano, with T-shaped iron bars.
- 139 Weidig, C., Jena.**—Upright walnut piano, in the Renaissance style; upright pianos, in walnut and imitation ebony.
- 140 Wolfram, H., Dresden.**—Exhibit. Agents: E. Samuel & Co., 43 Flinders-lane West, Melbourne.
- 141 Württembergische Harmonika Fabrik, Ch. Weiss, Trossingen.**—Collection of mouth harmonicas. Sole Agents: Joseph and Goldschmidt, 15 Flinders-lane W., Melbourne.
- 142 Zeitter & Winkelmann, Brunswick.**—Upright and grand pianos.
- 143 Zimmermann, Gebr., Leipsic.**—Ebony concert upright pianos, with sound-holding pedals.

Class 14.—Mathematical and Philosophical Instruments.

- 144 Anschütz, Ottomar, Lissa, Posen.**—Stroboscopic apparatus.
- 145 Dreyer, Rosenkranz & Droop, Hannover.**—Water meters. Agents: Pfaff, Pinschof & Co., 13 Flinders-lane W., Melbourne.
- 146 Gluers, W., Wittwe, Berlin.**—Optical instruments, microscopes, stereoscopes, magnifying glasses, &c.
- 147 Haff Gebr., Pfronten, Bavaria.**—Drawing instruments, planimeter, protractors, proportional compasses, beam compasses, scales, &c. Agents: Palmer, Scott & Co., 135 Collins-st. W., Melbourne.
- 148 Moller, Oscar, Hamburg.**—Various aneroid barometers, drawings of barometers.
- 149 Naglo Brothers, Berlin.**—Microphone and telephone.
- 150 Riefler, Clemens, Nesselwang and Munich.**—Patent compasses of various descriptions. Agents: Weiler, Heidepriem and Co., corner of Queen and Bourke Sts., Melbourne.
- 151 Staudinger, C., & Co., Nachfolger, Giessen.**—Chemists' balance, with aluminium beam. Agent: Frederick Holtz, 28 Queen-st., Melbourne.
- 152 Traiser, Carl, Darmstadt.**—Engravers' machines, producing straight, curved, and other lines; engraving and drawing implements for lithographers.
- 153 Zeiss, Carl, Jean.**—Microscopes.

III.

Furniture and Accessories.

Class 16.—Furniture.

- 154** **David & Co.**, Hannover.—Various patented rolling-screens and fire-screens ; small household articles.
- 155** **Dorfelder, I. B.**, Mainz.—Combination billiard-dining table. Agents : Pfaff, Pinschöf and Co., 13 Flinders-lane W., Melbourne.
- 156** **Friedrich, O. B.**, Dresden.—Ebony table in Italian renaissance style ; the ivory intarsia-work made from a design by Prof. Krumpholz.
- 157** **Heymann, J. D.**, Hamburg.—Diningroom furniture.
- 158** **Lohier, Th.**, Mannheim.—Wire mattresses. Agents : Pfaff, Pinschöf and Co., 13 Flinders-lane W., Melbourne.
- 159** **Pfaff, J. C.**, Berlin.—Dining, drawing, bedroom, and library furniture in suites.
- 160** **Praechtel, C.**, Berlin.—Drawingroom, dining-room, and bedroom, completely furnished and decorated.
- 161** **Ruscheweyh & Schmidt**, Furniture manufactory, Langenöls, Silesia.—Sliding table, card-table, chair with self-adjusting back.
- 162** **Simon, H., & Co.**, Berlin.—Adjustable reading and writing desks for children.
- 163** **Vogts, Ferd., & Co.**, Berlin.—Dining and bedroom furniture, easy chairs, &c.

Class 17.—Upholsterers' and Decorators' Work.

- 164** **Fraulob, Eduard**, Chemnitz.—Plush for decorative purposes.
- 165** **Geisberg & Wiede**, Chemnitz.—Woven and printed woolen, cotton, and jute curtains.
- 166** **Heinert, August**, Zwickau.—Paper decorations, especially for ceilings.
- 167** **Hering, Gebr.**, Konigstein, Saxony.—Mouldings for frames and decorative purposes. Agents : Pfaff, Pinschöf and Co., 13 Flinders-lane W., Melb.
- 168** **Knittel, Otto, & Co.**, Freiburg, Baden.—Samples of mouldings for frames and mirrors.
- 169** **Schmidtmann, B.**, Leipsic.—Ceiling and wall decorations of paper-stucco : corner, centre-pieces, flutings, borders, &c. Agents : Weiler, Heiderman & Co., corner Queen and Bourke Sts., Melb.
- 170** **Schreiber, Richard**, Raschau, Saxony.—Plaster ceiling of paper-stucco, rosettes of the same material. Agents : Schreiber and Schaefer, 6 Flinders-lane W., Melbourne.
- 171** **Thorey, Georg**, Falkenstein and Leipsic, Saxony.—Manufacturer of curtains, cotton and woolen lace, dyeing, and finishing works.
- 172** **Werkmeister, A.**, Berlin.—Gold, Alhambra, and polished mouldings for frames and decorative purposes. Agents : Palmer, Scott & Co., 135 Collins-st. W., Melbourne.

Class 18.—Carpets, Tapestry, and other Stuffs for Furniture.

- 173** **Burnip, W., & Co.**, Hamburg.—Tapestries, plush, hair-seating, and other materials used by upholsterers. Agents : W. Burnip & Co., 49 Flinders-lane W., Melbourne

- 174** **Clouth, Franz**, Rheinische Gummiwaaren Fabrik, Nippes, Cologne.—Indiarubber mats and carpets.
- 175** **Felten & Guilleaume**, Mülheim-on-the-Rhine.—Patent "Spiralum" wire door-mat. Agents : W. F. Walker & Co., 14 Flinders-lane W., Melbourne.
- 176** **Fraulob, Eduard**, Chemnitz.—Plush for furniture ; table-covers of plush.
- 177** **Geisberg & Wiede**, Chemnitz.—Woven and printed woolen, cotton, and jute table-covers.
- 178** **Mayer, Michel & Deninger**, Mainz a Rhine.—Calf-kids ; varnished, satin, and waxed calf-skins ; skivers, coloured moroccos.
- 179** **Paatz, F.**, Berlin.—Carpets, curtains, table-covers, piano-covers, travelling-rugs, furniture-coverings, shawls, &c.
- 180** **Protzen, M., & Sohn**, Berlin.—Carpets, tapestries. Agents : Wedeler & Kinghorn, 32 Flinders-lane W., Melbourne.
- 181** **Vaterlandischer Frauen - Zweig - Verein**, Neustadt (Silesia).—Carpets.

Class 19.—Paperhangings.

- 182** **Elsas, Friedrich, jun.**, Barmen.—Samples of various papers, imitation wood, and imitation leather.
- 183** **Grossheim, Georg**, Elberfeld.—Samples of imitation marble and wood on pasteboard, produced by means of transfer graining sheets.
- 184** **Heinrt, August**, Zwickau, Germany.—Ceiling Decorator.
Sole Agents for the Australian Colonies : Messrs. Petach, Döehling, & Co., 2 Little Collins-street, Melbourne ; 332 Kent-street, Sydney.
- 185** **Peine, G. L.**, Hildesheim.—Paperhangings, borders, friezes, and fillets.
- 186** **Schnell, Philipp**, Cassel.—Coloured papers of every description. Agents : Pfaff, Pinschöf and Co., 13 Flinders-lane W., Melbourne.

Class 20.—Cutlery.

- 187** **Kirchhoff, F. C.**, Leipsic.—Nickel and steel ware, especially kitchen and household utensils.

Class 21.—Goldsmiths' and Silversmiths' Work.

- 188** **Brauer & Rehwinkel**, Plagwitz, Leipsic, Saxony.—Nickel-plated goods.
Sole Agents for the Australian Colonies : Messrs. Petach, Döehling & Co., 2 Little Collins-street, Melbourne ; 332 Kent-street, Sydney.
- 189** **Munchmeyer, C. A., & Co.**, Berlin.—Electro-plated and gilt metal ware.
- 190** **Wurtembergische Metallwaaren-fabrik**, Geislingen.—Electro-plated and gilt metal ware.

Class 22.—Bronzes, various Art Castings, and Repoussé Work.

- 191** **Droessler & Leithold**, Berlin.—Bronzeware.
- 192** **Grimme, Natalis & Co.**, Brunswick.—Artistic iron, bronze, and zinc castings, reproductions of antique objects of art, &c.

- 193 Gurth, Oscar, & Co., Berlin.**—Divers zinc and bronze castings, cups, jugs, vases, inkstands, clocks, columns, figures, &c.
- 194 Koch & Bein, Berlin.**—German coat-of-arms in zinc castings; standards of Exhibition groups at German Court.
- 195 Leonhardt, Heino, Berlin.**—Bronze and Cuivrepali goods; knives, forks, spoons, writing-stands, &c. Agents: Schreiber & Schaefer, 6 Flinders-lane W., Melbourne.
- 196 Muller, A. W., Berlin.**—Painted china and majolica lamps, fitted with real and imitation bronze.
- 197 Pearmtree & Co., Berlin.**—Articles of industrial art; borders, fans, picture-frames, portfolios, reliefs, clocks, glass pictures, &c.
- 198 Seitz, H., Munich.**—Artistic articles of copper and silver, embossed and engraved, hand-made.
- 199 Wandler & Heinicke, Berlin.**—Knicknacks, in bronze: photographic frames, looking-glasses, thermometers, writing-stands, &c. Agents: Schreiber & Schaefer, 6 Flinders-lane W., Melb.
- 200 Werck & Glinicke, Berlin.**—Busts and statuettes.

Class 23.—Clocks and Watches.

- 201 Etzold & Popitz, Leipsic.**—Clocks, in decorated wood-cases.
- 202 Hamburg-Amerikanische Uhrenfabrik, Schramberg, Württemberg.**—Clocks, in wood, nickel, and metal cases. Agents: Wedeles and Kinghorn, 32 Flinders-lane W., Melbourne.
- 203 Loffler, Heinr., Bremen.**—Electric clocks, manufactured by the "Hanauer Elektrische Uhrenfabrik Steinheuer & Rabe."

Class 24.—Perfumery.

- 204 Doeppel & Co., Berlin.**—Perfumery, and fancy perfumery of all kinds, perfumes, hair-wash, sprays, perfuming lamps, &c.
- 205 Farina, Joh. Maria, Cologne.**—Cologne-water. Agents: Pfaff, Pinschöf & Co., 13 Flinders-lane W., Melbourne.

EAU DE COLOGNE,

The genuine Cologne Water of

JOHANN MARIA FARINA,
JULICH'S PLATZ NO. 4,

At COLOGNE OF RHINE,

Has been awarded at the Adelaide Jubilee International Exhibition, 1887,

THE FIRST CLASS AWARD,

THE DIPLOMA OF FIRST ORDER OF MERIT AND MEDAL,
For its excellent quality.

This genuine Cologne Water has also obtained Awards and Medals at the Exhibitions of all nations, in London, 1851; New York, 1853; London, 1862; Oporto, 1865; Cordoba, 1871; Vienna, 1873; Santiago (Chili), 1875; Philadelphia, 1876; Cape Town, 1877; Sydney, 1879; Melbourne, 1880; Boston, 1883; and in Calcutta, 1884.

206 Haenzel, Heinrich, Pirna, Saxony.—Æthereal real oils. Agent: J. Levy, 15 Flinders-lane W., Melbourne.

207 Leichner, L., Berlin.—Stage paints and powders, toilet requisites, puffs, perfumes.

208 Leipziger Gummiwaarenfabrik vorm. Jul. Marx, Heine & Co., Leipsic.—Samples of perfumery, atomisers.

- 209 Lohse, Gustav, Berlin.**—Perfumeries of every description, extracts, toilet soaps, cosmetics, powders, &c. Agent: J. Levy, 15 Flinders-lane W., Melbourne.

- 210 Mack, H., Ulm, A.D., Germany.**—PASTA MACK for Bath and Toilet use.



This entirely new and excellent health-giving preparation softens the water, gives it a most delicious odour, and beautifies the complexion in a most extraordinary way. Should be in every bathroom and bedroom. To be had of all respectable Chemists and Perfumers throughout the world.

Sole Agents: Messrs. Pfaff, Pinschöf and Co., 13 Flinders-lane West, Melbourne.

- 211 Prehn Oscar, "Zur Flora," Leipsic.**—Prehn's "Sandmandelkleie" (almond powder) and silk scent-cushions. Agents: Schreiber & Schaefer, 6 Flinders-lane W., Melbourne.

- 212 Saeuberlich, Anton, Ludwig, Zwickau.**—Fancy articles of soap, with wax crust; toilet soap, perfumery.

- 213 Spielhagen, Franz, Nostiz Strasse 30, Berlin, S.W.**—Soap, perfumeries, and candles.

Sole Agents for the Australian Colonies: Messrs. Petsch, Döehling & Co., 2 Little Collins-street, Melbourne; 332 Kent-street, Sydney.

- 214 Wolff, F., & Sohn, Karlsruhe.**—Perfumery and toilet soap. Agents: Schreiber & Schaefer, 6 Flinders-lane W., Melbourne.

Class 25.—Leatherwork, Fancy Articles, and Basketwork.

- 215 Bolle, Wilhelm, Berlin.**—Work, jewel, glove boxes; dressing cases, mirrors, ladies' bags, purses, &c.

- 216 Dukas, D. J., Freiburg, Baden, Germany.**—Brushware.

Sole Agents for the Australian Colonies: Messrs. Petsch, Döehling and Co., 2 Little Collins-street, Melbourne, and 332 Kent-st., Sydney.

- 217 Gebruder Adt., Manufacturers of all kinds of Papier-maché Goods.**

FORBACH—Alsace-Lorraine.

ENSHEIM—Rhenish Bavaria.

PONT-&MOUSSON—France.

Central Office: Forbach, Alsace-Lorraine.

Sample Rooms in Paris: Rue de Turbigo, 45; London: 15 Long-lane, Aldgate-st., E.C.; Berlin: Oranienstrasse, 108 S.W.; Brussels: 46 Boulevard Bischoffsheim.

Established in Ensheim, Rh. Bavaria, 1839.

Number of Workpeople, 2200.

The firm manufactures Varnished Papier-maché Goods, which are inlaid with metal and mother o' pearl, or decorated with oil paintings, or in Japanese and Chinese styles with silver and gold, as

Snuffboxes, Smokers' Requisites, Spectacle Cases, Writing-table Requisites, Table Requisites, Fancy Goods, various articles for Photographers, various articles for Apothecaries, Shoe and Trouser Buttons of various colours and forms, Wheel Discs for Carriage Wheels, Spools and Tubes of Compressed Paper for Cotton, Worsted, Weaving, and Thread Mills.

Schmedes, Erbslöh & Co., Representatives, Melbourne.

- 218 Flemming, Ed., & Co., Schönheide, Saxony.**—Brushes of all kinds—horse-hair, cloth, hat, bath, stove, and shoe.
- 219 Kantorowicz, Robert, Berlin.**—Portfolios, knapsacks, brush cases, &c.
- 220 Kirchhoff, F. C., Leipsic.**—Woodware, especially kitchen and household requisites.
- 221 Merkel, Wm., Raschau;** proprietor, Lindemann, C., Dresden.—Stoppers for barrels, bottles, and druggists' use; cork soles, life-preservers, &c.
- 222 Peez, Helene, Oestrich on the Rhine.**—Artificial flowers, art castings in bronze, zinc, and cast-iron, decorated.
- 223 Quincke, Emil. Aug., Lüdenscheid.**—Metal buttons of every description, buckles, clasps, medals, &c.
- 224 Roegner, C. H., Striegau, Silesia.**—Brushes of all kinds. Agents: Weiler, Heidepriem & Co., corner of Queen and Bourke Sts., Melbourne.
- 225 Schutt, F. A., Pforzheim, Baden.**—Various toilet brushes and looking-glasses.
- 226 Weintraud & Co., Offenbach a Maine.**—Ladies' bags, card-cases, purses, albums, photographic frames, cigar-cases, bag-frames, &c.

IV.**Fictile Manufactures, Glass, Pottery, &c.**

- Class 26.—Crystals, Glass, and Stained Glass.**
- 227 Buchenbacher, Siegmund, Fürth.**—Looking-glasses. Agents: Pfaff, Pinschof & Co., 18 Flinders-lane West, Melbourne.
- 228 Klein, H. F. Rohrbachs Erben, Waldstein, near Rückers (Silesia).**—Cut-crystal two-set decanters, jugs, covers, bowls, &c., of cut-glass.
- 229 Koch & Bein, Berlin.**—Metal and glass letters; painted and etched glass signs.
- 230 Oldenburgische Glashütte, Oldenburg.**—Wine, beer, soda-water, medical, and other bottles; bottled with glass stoppers.
- 231 Rohrig, Carl Glashütte, Braunlage, Harz.**—Glasses for mirrors, microscopic and optic purposes, and instruments, mirrors, &c.
- 232 Wittorf, A., Ottensen.**—Beer-mugs, jugs with lids, and syphons.
- Class 27.—Pottery.**
- 233 Alberti, Carl, Uhlstädt, Thuringia.**—Porcelain-ware; cups, plates, mugs, jugs, cruet-stands, tea-sets, sets for children, &c. Agents: Weiler, Heidepriem & Co., corner of Queen & Bourke Sts., Melbourne.
- 234 Drechsler, August, Chemnitz.**—Sepulchral figures of terra-cotta.
- 235 Gundlach, Gebruder, Grossalmeroda, Hessen-Nassau.**—Clay for making glass-pots, crucibles, fire-bricks, and plumbeo crucibles.
- 236 Heubach, Kaempfe & Sontag, Wallendorf, S. Meiningen.**—Figures in biscuit-porcelain, flower-vases. Agents: Weiler, Heidepriem & Co., corner of Queen and Bourke Sts., Melbourne.
- 237 Königliche Porzellan Manufaktur, Berlin** (exhibited by R. Horstmann).—Art china goods, porcelain fountain, dish, flower-pots, &c.
- 238 March, Ernst, Sohne, Charlottenburg.**—Earthen figures, vases, &c., used as ornaments in the German Court of the Exhibition. Agents: Palmer, Scott and Co., 135 Collins-street W., Melb.
- 239 Muther & Mezger, Tirschenreuth.**—Porcelain ware for daily domestic use—tea, breakfast, and dessert sets, cups and saucers, jugs, plates, vases, &c. Agents: Joseph and Goldschmidt, 13 Flinders-lane W., Melbourne.
- 240 Porzellanfabrik Gunthersfeld Th. Degenring, Gehren, Thuringia.**—White and decorated porcelain—candlesticks, toast-racks, egg cups, niugs, jugs, &c.
- 241 Schorn, P. J., & Bourdois, Düsseldorf.**—Graphite crucibles. Agent: J. Levy, 15 Flinders-lane W., Melbourne.
- 242 Sinziger Thonwaarenfabrik, Sinzig-on-the-Rhine.**—Flooring tiles.
- 243 Stettiner Chamottefabrik, Actiengesellschaft, vorm. Didier, Stettin.**—Chamotte retorts for gasworks, mould-stones.
- 244 Thonwaarenfabrik der Magdeburger Bau Bank, Duivigneau, Magdeburg.**—Majolica-ware, glazed earthen reliefs, mosaic flooring.

V.**Textile Fabrics, Clothing, and Accessories.**

- Class 28.—Cotton, Thread, and Fabrics.**
- 245 Gartner, Ernst, Seifhennersdorf, Saxony.**—Samples of cotton tweeds, gambooons, and ready-made clothes.
- 246 Hussy & Kunzil, Murg a. Rh., Baden.**—Dress goods, handkerchiefs, shoe-drills, flannels, &c., of cotton.
- 247 Kaehl, Richard, Goldberg, Silesia.**—Lasting indigo-blue house and kitchen aprons, printed and dyed; stuff for aprons. Agents: Schreiber and Schaefer, 6 Flinders-lane W., Melbourne.
- 248 Schroeder, J. E. H., Cologne.**—Night and day shirts, &c.
- 249 Uebel, Gebruder, Plauen i. V., Saxony.**—Lining-muslin, roll books, marly, cotton blankets.
- 250 Voss, Johann August, Hohenstein, Saxony.**—Counterpanes, gray, bleached, and fancy coloured.
- 251 Wunsche, Emil. (owner, J. G. Ihle), Greiffenberg, Silesia.**—Blue prints, aprons, table covers, handkerchiefs, &c.

Class 29.—Thread and Fabrics of Flax, Hemp; Jute, &c.

252 **Bendix & Co.**, Berlin.—Table linen and towels, drills and damask; not for competition.

253 **Berlin Mechanical Fishing-net Works** (F. Klinger, Berlin).—Various fishing-nets, of cotton, hemp, yarn, and twine.

254 **Burnip, W., & Co.**, Hamburg.—Canvas, hessian, duck, and other materials for tent-making. Agents: W. Burnip and Co., 49 Flinders-lane W., Melbourne.

255 **Elbinger Aktiengesellschaft fur Leinen-industrie**, Elbing.—Samples of blue and printed linen, half-linen; ready-made aprons. Agents: Nason and Co., 268 George-st., Sydney.

256 **Frankel, S.**, Neustadt, Silesia.—Table linen and towels, in pure linen, half-linen, and silk.

257 **Reuschel, Aug., & Co.**, Schlotheim, Thuringia.—Twilled webbings of different kinds; hemp and cotton hoses.

258 **Warmuth, Heinr. Wilh.**, Löbtau, Dresden.—Hemp, flax, and cotton hoses, rough and coated with caoutchouc.

259 **Wunsche, E.** (owner, J. G. Ihle), Greifenberg, Silesia.—Blue prints, aprons, table-covers, handkerchiefs, &c.

Class 30.—Worsted Yarn and Fabrics.

260 **Arnold, Friedrich**, Greiz.—Pure woollen goods.

261 **Arnold, W. H., jun.**, Greiz.—Worsted fabrics, of every kind.

262 **Dietsch & Oehler**, Greiz.—Worsted fabrics.

263 **Loblich & Josephson**, Gera.—The above are manufacturers of all kinds of pure woollen ladies' dress goods, especially cashmeres, as well as worsted stuffs for ladies' mantles and gentlemen's coats. Represented by M. Rosenhain, William-st., South Yarra, Melbourne.

264 **Schilbach & Co.**, Greiz.—Plain and fancy worsted dress goods.

265 **Schilbach & Heine**, Greiz.—Black and coloured woollen dress goods.

266 **Schleber, Georg.**, Dye and Finishing Works, Greiz.—Series of shades in all colours.

267 **Schnabel, C. & F.**, Hückeswagen.—Worsted fabrics.

268 **Weber, C. G., & Feustel**, Greiz.—Woollen dress goods.

Class 31.—Worsted and Woollen Yarn and Fabrics.

269 **Botzong, George**, Lambrecht, Pfalz, Germany.—Tweeds.

Sole Agents for the Australian Colonies: Messrs. Petsch, Döbeling and Co., 2 Little Collins-st., Melbourne; 332 Kent-st., Sydney.

270 **Bautzner Tuchfabrik vorm. C. G. E. Morbitz**, Bautzen.—Woollen trouserings and coatings.

271 **Erckens, Joh., Sohne**, Burtscheid, Aachen.—Woollen goods and novelties. Agents: Ostermeyer, Dewez & Co., 131 Collins-st. W., Melbourne.

272 **Glenck & Weisse**, Leipzig.—Collective exhibition of Saxon-Lausitz fabrics, comprising woollen cloths, buckskins, tweeds, and worsted fabrics. Sixty-five participants, viz.:—

273 **Bergami, H.**, Forst, Laus.

274 **Brauer, G.**, Forst, Laus.

275 **Buchholz, A. Nachf.**, Forst, Laus.

276 **Buchwald, Reinhard**, Grossenhain, Saxony.

277 **Caspari, J. F.**, Grossenhain, Saxony.

278 **Chevalier Gebr.**, Mylau, Voigtland.

279 **Dohler, C.**, Crimmitschau, Saxony.

280 **Domann, Th. A.**, Spremberg, N. Lausitz.

281 **Eberwein, Ad.**, Weende bei Göttingen.

282 **Elias, C. S.**, Cottbus.

283 **Eschenhagen, Fr. Ad.**, Cottbus.

284 **Exner, Jul.**, Forst, Laus.

285 **Frenzel, Robert**, Forst, Laus.

286 **Gerber, A., & Sohn**, Sagan, Schl.

287 **Grass, Ad Nachf.**, Forst, Laus.

288 **Grass, Louis**, Forst, Laus.

289 **Groschke, C. A.**, Forst, Laus.

290 **Grovermann & Hoppe**, Cottbus.

291 **Hammer, Friedrich**, Forst, Laus.

292 **Heinze, F. W.**, Spremberg, N. Lausitz.

293 **Heinze, Wilhelm**, Spremberg, N. Lausitz.

294 **Hennig, M.**, Finsterwalde.

295 **Hildebrandt, Carl**, Neudamm.

296 **Ilgen, W. H.**, Crimmitschau, Saxony.

297 **Jackeschky, Reinhold**, Forst, Laus.

298 **Jager, Heinr.**, Cottbus.

299 **Jahn, Aug.**, Crimmitschau, Saxony.

300 **Kohler, Carl**, Crimmitschau, Saxony.

301 **Koswig, F. F.**, Finsterwalde.

302 **Kruger, C. A.**, Spremberg, N. Lausitz.

303 **Landow Gebr.**, Forst, Laus.

304 **Lang, J.**, Grossenhain, Saxony.

305 **Lange, Moritz**, Cottbus.

306 **Langen & Müller**, Görlitz, Schl.

307 **Lichtenstein & Conrad**, Cottbus.

308 **Lippoldt, C. H.**, Werdau, Saxony.

309 **Meusser, Gotthelf**, Spremberg, N. Lausitz.

310 **Müller, Oscar**, Kamenz, Saxony.

311 **Oppel & Hoffmann**, Cottbus.

312 **Patz & Co.**, Oelsnitz, Voigtland.

313 **Petricz, F. W.**, Spremberg, N. Lausitz.

314 **Preusse, Carl, sen.**, Neudamm.

315 **Rimpier, C. F., & Co.**, Schwiebus.

316 **Schaefer, Carl**, Finsterwalde.

317 **Schlunk, Proß & Co.**, Brandenburg a. H.

318 **Schneider & Co.**, Glauchau, Saxony.

319 **Schmidt, W. H.**, Spremberg, N. Lausitz.

320 **Schubert, E., & Co.**, Sommerfeld, N. Lausitz.

321 **Schwetasch, Ad.**, Spremberg, N. Lausitz.

322 **Spengler, Gebr.**, Crimmitschau, Saxony.

323 **Starcke, Heinr.**, Cottbus.

324 **Stern, F. W.**, Cottbus.

325 **Stohr, Rud.**, Cottbus.

326 **Streit, Gustav**, Spremberg, N. Lausitz.

- 327 **Textor & Prochatschek**, Cottbus.
 328 **Tragmann, Gustav, & Sohne**, Spremberg, N. Lausitz.
 329 **Ullrich, Otto**, Werdau, Saxony.
 330 **Unger & Wiesenthal**, Forst, Laus.
 331 **Vogel, Jul.**, Cottbus.
 332 **Vorwerg, E.**, Kamenz, Saxony.
 333 **Werner, Max.**, Forst, Laus.
 334 **Werner, F.**, Forst, Laus.
 335 **Werner, H.**, Forst, Laus.
 336 **Werner & Klemm**, Forst, Laus.
 337 **Wilhelm, Carl**, Crimmitschau, Saxony.
 338 **Kesselkaul, J. H. Enkel**, Aix-la-Chapelle.—Cloths and worsted fabrics, in different colours.
 339 **Schnabel, C. & F.**, Huckeswagen.—Woollen fabrics.
 340 **Weller, Im.**, Kirchberg, Saxony.—Black and coloured cloths, satins, cashmeres, coatings, buckskins, &c. Pfaff, Pinschöf & Co., Hamburg, and 13 Flinders-lane W., Melbourne.

Class 32.—Silk and Silk Fabrics.

- 341 **Kramer & Falk**, Berlin.—Silk brocaded ladies' wrappers, sorties de bal, &c.

Class 33.—Shawls.

- 342 **Kramer & Falk**, Berlin.—Shawls, wrappers.

Class 34.—Lace, Net, Embroidery, and Trimmings.

- 343 **Baumann, F. G.**, Plauen i Voigtländ.—Tulle, lace, embroideries, and embroidered dresses. Agents: Schreiber and Schaefer, 6 Flinders-lane W., Melbourne.
 344 **Henkels, Albert & E.**, Langerfeld, near Barmen.—Machine-made laces.
 345 **Koch, Jos.**, Wesel.—Hand and machine made embroideries.
 346 **Matthies, Sophie Fraulein**, Hamburg.—Table linen. Agents: Pfaff, Pinschöf and Co., 13 Flinders-lane W., Melbourne.
 347 **Thorey, Georg**, Leipzig and Falkenstein.—Laces, lace dresses, &c.

Class 35.—Hosiery and Underclothing, and Accessories of Clothing.

- 348 **Aurich, Alban**, Hartmannsdorf, near Leipzig.—Cotton, half-woollen, woollen, half-silk, and silk gloves for children, ladies, and gentlemen.
 349 **Beyerlein's, Ad., Sohne & Co.**, Osterwieck a. Harz.—Kid gloves.
 350 **Behr & Vollmoeller**, Vaihingen, Wurttemb.—Tricot underclothing.
 351 **Conradi & Friedemann**, Limbach, Saxony.—Underclothing.
 352 **Engelman, August**, Russdorf, near Limbach, S. Altenburg.—Hosiery.
 353 **Export Union of Saxony**, Dresden.—Illustrated album and directory of Saxon and Thuringian firms.

- 354 **Gulden, Heinrich**, Chemnitz.—Gloves made of cotton, woollen, half-silk, silk, and fancy stuffs. Agents: Schreiber and Schaefer, 6 Flinders-lane W., Melbourne.
 355 **Hartel, Heinrich Christ.**, Waldenburg, Saxony.—Hosiery and gloves of various descriptions.
 356 **Horstmann, Rich.**, Berlin.—Undergarments and accessories; collars, cuffs, neckties, gloves, and umbrellas.
 357 **Kamper & Weber**, Berlin.—Gentlemen's neckties.
 358 **Marschel, Aug., & Co.**, Chemnitz.—Underclothing of wool, silk, and cotton; of pure, undyed wool (according to Prof. Jaeger's system), &c.
 359 **Rætzer, H.**, Oberfrohna, near Chemnitz.—Woven gloves, &c., of silk, cashmere, and cotton.
 360 **Risler & Co.**, Freiburg, Baden.—Porcelain buttons and pearls. Agents: Joseph and Goldschmidt, 13 Flinders-lane W., Melbourne.
 361 **Schaarschmidt, Louis H.**, Limbach, Saxony.—Hosiery, silk, woollen, and cotton underclothings, and accessories of clothing.
 362 **Seifert, S. G.**, Taura, Saxony.—Ladies' and men's waists, under-clothings of wool, half-wool, and cotton. Agents: Pfaff, Pinschöf & Co., 13 Flinders-lane W., Melbourne.
 363 **Stahlknecht Bros.**, Stollberg, near Chemnitz.—Samples of fine fancy hosiery.
 364 **Steinbach & Berger**, Wittgensdorf, near Chemnitz.—Gloves made of silk, half-silk, cotton, and wool.
 365 **Werner & Kyber**, Limbach, Saxony.—Gloves, ladies' skirts, &c. Agents: Joseph & Goldschmidt, 13 Flinders-lane W., Melbourne.
 366 **Wissner, Wilhelm**, Göppingen.—Corsage steels and clasps of all kinds, dress steels.

Class 36.—Clothing for both Sexes.

- 367 **Adam, S.**, Berlin.—Dressing-gowns, smoking-jackets, suits, overcoats, ulsters, dusters, &c.
 368 **Bibo, S.**, Berlin.—Feathers and birds for trimming, feather hats.
 369 **Clouth, Franz**, Rheinische Gummiwaarenfabrik, Nippes, Cologne.—Waterproof cloaks, miners' dresses, &c.
 370 **Gartner, Ernst**, Seiffenhennsdorf, Saxony.—Ready-made trousers and garments for men and boys, in cotton, unions, and shoddy.
 371 **Gregurke, Carl**, Berlin.—Trimmings and linings for men's and boys' hats.
 372 **Hannoversche Caoutchouc, Gutta-percha, and Telegrafenwerke**, Linden vor Hanover.—India-rubber cloth.
 373 **Heimann, E.**, Schweinfurt a Maine.—Shoes of leather and stuffs.
 374 **Hussy & Kunzli**, Murg o. Rhine, Baden.—Shoe elastic, of silk, half-silk, wool, cotton, &c.
 375 **Herz, Otto, & Co.**, Frankfurt-a-Maine.—Shoes and boots. Agents: Ostermeyer, Dewez & Co., 131 Collins-st. W., Melbourne.
 376 **Jeitteles, Daniel**, Esslingen-on-the-Neckar, Wurtemberg, Germany.—Leather and Glove Manufacturer. Specialities: Lambskin and Goat-skin Gloves—best makes. Awards at all International Exhibitions.
 377 **Wunsche, Emil** (proprietor, F. G. Ihle). Greifenberg, Silesia.—Dresses, blue prints.

- Class 37.—Jewellery and Precious Stones.**
- 378 **Brockmann, L.**, Berlin.—Jewellery and fancy goods in amber, coral, mother-of-pearl, steel, leather, &c.
- 379 **Schuler, P., & Co.**, Siesbach, near Idar.—Manufacturers of cut and engraved stones. Agents: Pfaff, Pinschof & Co., 13 Flinders-lane W., Melbourne.
- Class 38.—Portable Weapons, and Hunting and Shooting Equipments.**
- 380 **Berlin Mechanical Net-works, Franz Klinger**, Berlin.—Various fishing nets.
- 381 **Clouth, Franz, Rheinische Gummi-waarenfabrik**, Nippes, Cologne.—Waterproof coats, gauntlets, hunting bags.
- 382 **Cordes, H. G.**, Bremerhaven.—Various sporting guns. Agents: Ostermeyer, Dewez & Co., 181 Collins-st. W., Melbourne.
- 383 **Mayer, Joseph**, Saulgau, Württemberg.—Repeating and sporting rifles (Mauser's system).
- 384 **Pulverfabrik Rottweil-Hamburg**, Rottweil.—Gunpowder im., cartridge boxes, cartridges, &c.—Agent: F. Messner, Mining-chambers, 32 Flinders-lane W., Melbourne.
- 385 Rhennish Westphalian Gunpowder Mills**, Cologne, Germany.—Exhibit. Sole Agents for the Australian Colonies: Messrs. Petsch, Döhlung & Co., 2 Little Collins-st., Melbourne; and 332 Kent-st., Sydney.
- 386 **Wolff & Co.**, Walsrode.—Tin cans used for packing of gunpowder, gunpowder im., imitated gun cotton, &c.
- Class 39.—Travelling Apparatus and Camp Equipage.**
- 387 **Clouth, Franz, Rheinsche Gummi-waarenfabrik**, Nippes, Cologne.—Stuff for waterproof coverings and tents, cover, &c.
- 388 **Landauer, J.**, Leipsic, Reudnitz.—Tent models, samples of waterproof canvas, horse and cow rugs.
- Class 40.—Toys.**
- 389 **Arnold, M. Oscar**, Neustadt a Haide.—Dressed dolls. Agent: Frederick Holtz, 28 Queen-st., Melbourne.
- 390 **Dressel, Cuno & Otto**, Sonneberg.—Toys and dolls of every description. Agents: Schreiber and Schaefer, 6 Flinders-lane W., Melbourne.
- 391 **Recknagel, Phil., & Co.**, Eisfeld, Thuringia.—Figures, dolls, and marbles of stone, porcelain, and glass.
- 392 **Teichmann, Hugo** (successor, F.W. Richter), Leipsic.—Balloons, musical kites, fans, and military equipments for children.

VI.

Raw and Manufactured Processes and Products.

- Class 41.—Products of the Cultivation of Forests and of the Trades appertaining thereto.**
- 393 **Auffermann, W.**, Berlin.—Dyed wood and veneers. Specialties—black, pear-tree, maple, and coloured veneers.
- Class 42.—Products of Hunting, Shooting, Fishing, and Spontaneous Products. Machines and Instruments connected therewith.**
- 394 **Burnip, W., & Co.**, Hamburg.—Hair, bristles, and other materials used in brush-making. Agents: W. Burnip and Co., 49 Flinders-lane W., Melbourne.
- Class 43.—Agricultural Products not used for Food.**
- 395 **Bremer Cigarren-Fabriken, vorm. Biermann & Schorling**, Bremen.—Cigars of various descriptions. Agents: H. Haege and Co., 40 Elizabeth-st., Melbourne.
- 396 **Fabricius, H.**, Weimar.—“Weimarer Huf-schmire” (Weimar hoof-grease).
- 397 **Groeben, E. von der**, Gr. Klingbeck, East Prussia.—Wool fleeces from ewes.
- 398 **Hulsemann, C.**, Altenburg in Sachsen.—Cigars for export.
- 399 **Heine, Adolf**, Leipzig.—Wool.
- 400 **Katz, W., & Co.**, Bruchsal, Baden.—German leaf-tobaccos, stripped and unstripped.
- 401 **Klein, C. J., & Butschke**, Hamburg.—Cigars. Agents: Schreiber and Schaefer, 6 Flinders-lane W., Melbourne.
- 402 **Kronheimer, J., & Co.**, agents of the firm of H. Zieracks and Co., in Hamburg, Hamburg.—Collection of cigars. Agents: J. Kronheimer and Co., 32 Queen-st., Melbourne.
- 403 **Marx, Heinrich**, Nuremberg.—Specimens of Bavarian hops.
- 404 **Mayer-Bass, Leopold**, Frankfurt a. Maine.—Hops.
- 405 **Meerscheidt-Hullessem, Otto von**, Kuggen, East Prussia.—Combing-wool fleeces from rams, two years old; growth of wool, 12 months.
- 406 **Peemoller**, Hamburg.—Cigars.
- 407 **Podlech, Carl, Mollehn**, East Prussia.—Ram fleeces, from pure merino pedigree stock.
- 408 **Silbermann, Julius, & Co.**, Nuremberg.—Conserved Bavarian hops.
- 409 **Steiger, Otto**, Leutewitz, Saxony.—Fleeces in grease, samples of wool, and photos of sheep belonging to exhibitor's flock.
- 410 **Ullmann, Leopold** (conjointly with Ullman and Co.), Bamberg.—Bavarian, Bohemian, and other hops.

Class 44.—Chemical and Pharmaceutical Products.

- 411** **Action-Gesellschaft für Anilinfabrikation**, Berlin.—Samples of anilin dyes.
- 412** **Action-Gesellschaft Georg Egestorff's Salzwerke**, Linden, near Hanover.—Blue and green ultramarine in several stages of manufacture. Agents : Charles Atkins & Co., 65 William-st., Melbourne.
- 413** **Appolt Bros.**, Sulzbach, near Saarbrücken.—Paris and Prussian blue. Agent : Frederick Holtz, 28 Queen-st., Melbourne.
SPECIALTY : PRUSSIAN BLUE of every description, to be furnished at any time in any quantity. THE QUALITY BEING WORLD-REKNOWNED.
- 414** **Asche, C. F., & Co.**, Hamburg.—Pharmaceutical preparations : lozenges, pills, compressed preparations, fluid extracts, essences, &c.
- 415** **B. Anilin & Soda-Fabrik**, Stuttgart.—Colours for dyers, printers, painters, &c. : aniline, resorcin, naphthaline-colours ; artificial alizarine.
- 416** **Bang, Wilh.**, Hanau a. Maine.—Gelatine in sheets. Agents : Pfaff, Pinschöf & Co., 13 Flinders-lane W., Melbourne.
- 417** **Berger & Wirth**, Leipzig.—Printing and lithographic inks. Agents : F. Berndt and Co., 1 Flinders-lane West, Melbourne.
- 418** **Blume, Hans Carl**, Magdeburg.—Varnishes, &c. Agents : Schreiber & Schaefer, 6 Flinders-lane W., Melbourne.
- 419** **Brockmann, M.**, Eutritzsch, near Leipzic.—Parasite-tincture and soap.
- 420** **Burnip, W., & Co.**, Hamburg.—Soda-ash, soda-ash crystals, alkali, caustic-soda, potash, acids, &c. Agents : W. Burnip & Co., 49 Flinders-lane W., Melbourne.
- 421** **Clouth, Franz, Rheinische Gummiwarenfabrik**, Nippes-Cologne. — Rubber goods for mechanical purposes.
- 422** **Cuypers, W., & Stalling**, Pieschen, near Dresden.—Lubricating-oil for watches, &c.; quick-drying ink for telegraphic apparatus.
- 423** **Deutsche Farben-und Fruchteessenzenfabrik, Speck & Co.**, Leipzic.—Colours and fruit-essences for confectioners and distillers, &c.; chocolate. Agents : Schreiber & Schaefer, 6 Flinders-lane W., Melbourne.
- 424** **"Flora-Brunnen," Micklin & Buse**, Gerolstein.—Natural mineral water.
- 425** **Frey & Sening**, Leipzic.—Typographic and lithographic black and coloured printing inks. Manufacturers of Black and Coloured Printing and Lithographic Inks.
Agents : PFAFF, PINSCHOF & CO.
HAMBURG, Melbourne, Sydney, Adelaide, & Brisbane.
- 426** **Goebel, Jacob**, Siegen.—Leather glue.
- 427** **Haensel, Heinrich**, Pirna, Germany.—Essential Oils and Essences. Agent : Mr. Julius Levy, 15 and 17 Flinders-lane West, Melbourne ; 2 and 7 George-street, Sydney ; and 10 Australian-chambers, Queen-street, Brisbane.
- 428** **Haenle, Leo.**, Munich.—Bronze powders. Agents : Pfaff, Pinschöf & Co., 13 Flinders-lane W., Melbourne.
- 429** **Herold, Julius**, Monzingen a d. Nahe.—Glue. Julius Herold, Monzingen a/d Nahe, Germany, Manufacturer of Glue and Gelatine.
Glue made of leather only (a speciality) is of a light yellow colour and great strength, is free from acid and grease, and an excellent substitute for Gelatine. The samples shown are not specially selected for the Exhibition, but taken from stock, and orders will be executed in the same quality.
Agents : PFAFF, PINSCHOF & CO.
HAMBURG, Melbourne, Sydney, Adelaide, & Brisbane.
- 430** **Hannoversche Caoutchouc, Gutta-percha, und Telegraphen Werke**, Linden vor Hanover.—Clacks, lutes, washers, hoses, &c.
- 431** **Harzer Krystall Sauerbrunnen** Albert Volker, Goslar.—Natural mineral water—the "Harzer Krystall Sauerbrunnen." Agents : Pfaff, Pinschöf & Co., 13 Flinders-lane W., Melbourne.
- 432** **Hessel, Friedrich and Chas.**, Central Works and Offices, NECKHAU, near LEIPZIC, SAXONY. Branches : Aussig, Berlin, Hamburg, Nuremberg, Vienna, Buda-Pest. Colour Manufacturers. SPECIALTIES : Colours for Paper Hangings. Stained and Coloured Papers, Coloured and Art Printing for Coaches, Railway Carriages, and Machinery of every description. Colours for Oil Paints for Decoration & for all Industrial purposes.
- 433** **Hoffmann, Carl**, Berlin.—Pharmaceutical products.
- 434** **Kast & Ehinger**, Feuerbach, Stuttgart.—Typographic and lithographic printing inks, varnishes, printers' copying ink, &c., and proofs.
- 435** **Lewinsohn, J.**, Berlin.—Hard and elastic gelatine capsules. Agents : Palmer, Scott & Co., 135 Collins-st. W., Melbourne.
- 436** **Leyendecker & Co.**, Cologne.—Colours, specimens of lead plates, lead pipes, tin pipes. Agent : J. Levy, 15 Flinders-lane W., Melbourne.
- 437** **Lindenhahn & Giesel**, Leipzic, Reudnitz.—Volatile oils, &c. Agent : Frederick Berndt, 1 Flinders-lane W., Melbourne.
- 438** **Lubszyński, Herrmann & Adolf**, Berlin.—Metal polish, emery for cleaning knives, liquid fish glue, migraine pencils. Agents : Palmer, Scott & Co., 135 Collins-st. W., Melbourne.
- 439** **Oberhoffer & Co.**, Pfalzel, near Trier.—Natural mineral waters, lemonades made of "Victorian water."
- 440** **Oehlrich, A., & Co.**, Hamburg.—The Russian mineral lubricating oil "Bakuin," vaseline oils, Victoria vaseline.
- 441** **Saeuberlich, Anton Ludwig**, Zwickau.—Laundry and fancy soaps.
- 442** **Schmitt & Foerderer**, Wahlershausen, nr. Cassel, Germany.—Makers of Chemical Preparations. Sole Agents for the Australian Colonies : Messrs. Petsch, Döehling & Co., 2 Little Collins-street, Melbourne ; 332 Kent-street, Sydney.
- 443** **Schnell, Phil.**, Cassel.—Glue and size of every description, gelatine, &c.; phosphate of lime. Agents : Pfaff, Pinschöf & Co., 13 Flinders-lane W., Melbourne.
- 444** **Schramm, Christ.**, Offenbach a. Maine.—Samples of colours, printing ink, varnishes, lacquers. Agent : J. Levy, 15 Flinders-lane W., Melbourne.
- 445** **Schroeder & Stadelmann**, Oberlahnstein-on-Rhine, Manufacturers of Earth and Mineral Colours from their own Mines. Ground and finest levigated Ochres, Siennas, van Dyck-Brown, Umbers, Mineral Black, Green Earth, Terra alba, etc. Colours for Papermakers, Paperstainers, Paints, and Silicate colours. Four Establishments. Agent : Frederick Holtz, 28 Queen-st., Melbourne.
- 446** **Schuchardt, Dr. Theodor**, Görlitz.—Chemical products for scientific, medical, and photographic use.
- 447** **Schwabe, Dr. Willmar**, Leipzic.—Homeopathic preparations and completely fitted medicine chests.
- 448** **Vogt & Co.**, Berlin.—Cleaning paste. Agents : Pfaff, Pinschöf and Co., 13 Flinders-lane West.

- 449 Wilhelmii, Dr. F., Leipzig-Reudnitz.—** Chemicals: anechusine, curcumine, bitter-almond oil, sulphite of calcium, preserving-salt, &c. Agent: J. Levy, 15 Flinders-lane W., Melbourne.
- 450 Ziffer, L., Berlin.—** Rennet extract, powder, and pills; butter-colour, cheese-colour; preserving-powder and salt, &c.
- Class 46.—Leather and Skins.**
- 451 Bruning, H. W., Neuimünster i Holstein.—** Horse-hides. Agents: W. Burnip & Co., 49 Flinders-lane W., Melbourne.
- 452 Burnip, W., & Co., Hamburg.—** Tanned kips, calf-skins, goat-skins, and sheep-skins; moroccos, skivers, roans, &c. Agent: W. Burnip & Co., 49 Flinders-lane W., Melbourne.
- 453 Doerr & Reinhardt, Worms a. Rhein.—** Calf-kids; satin, waxed, russet, and varnished calf-skins; excelsior sheep-skins, goat-skins, &c.
- 454 Freudenberg, Carl, Weinheim, Baden.—** Waxed, varnished, grained, and satin-tanned calf-skins for shoemakers' use. Agent: Ostermeyer, Dewez & Co., 131 Collins-st. W., Melbourne.
- 455 Mahler's, P. W., Ww. & Sohne, Mühlhausen, Thuringia.—** Coloured and other sheep-skins.
- 456 Schaller, Georg., Lahr, Baden.—** Real moroccos in all colours and finish.
- 457 Simon, Wilhelm, Kirn-on-the-Nahe.—** Tanner and currier of moroccos, levants, and glacé-goats' skins, suitable for boot and shoe trade. Agents: Moller Brothers, 22 Flinders-lane West.
- 458 Weithase, Richard, Poesneck, S. Meiningen.—** Black sheepskins, varnished in various-manners. Agent: W. Burnip and Co., 49 Flinders-lane W., Melbourne.

VII.

Machinery, Apparatus, and Processes used in the Mechanical Industries.

- Class 47.—Agricultural Implements and Processes used in the Cultivation of Fields and Forests.**
- 459 Barends, Alb. Aug., & Co., Hamburg,** agents of Gebrüder Eberhardt, in Ulm.—Ploughs of steel and wrought iron.
- 460 Bochumer Verein fur Bergbau und Gussstahlfabrikation (Cast Steel Factory).**—Transportable small-gauge railways (24 inch), 2000 yards and 60 waggons; to be found under Classes 61, 63, 65, 75, and 82.
- 461 Bruninghaus Bros. & Co., Werdohl.—** Hay and manure steel forks, scythes, forgings, samples of bar iron and steel.
- 462 Cohen, Phil., Hannover.—** Books on agricultural objects.
- 463 Eckert, H. F., Ltd., Berlin.—** Ploughs of every description, harrows, horse rake, chaff-cutter, &c.
- 464 Kölner Werkzeugmaschinenfabrik von W. Quester, Cologne.—** Tobacco cutter, with self-acting packing mechanism and continual feeding. Agent: C. Dornfeld, Powlett-st. and Wellington-parade, East Melbourne.
- 465 Mayfarth, Ph., & Co., Frankfurt a. Maine.—** Threshing, chaff-cutting machines, various ploughs, apparatus for drying fruits and vegetables, &c.
- 466 Nagel & Kaempf, Hamburg.—** Double-acting press for bran and other materials. Agent: C. Dornfeld, Powlett-st. and Wellington-parade, E. Melbourne.
- 467 Rheinische Sensenfabrik Grunewald & Co., Kalk, near Cologne.—** Various scythes.
- 468 Sack, Rud., Plagwitz, Leipzig.—** Various ploughs, elastic draught contrivance (shock receiver), drills, harrows, rake hoes, hand hoes, &c. Agents: Palmer, Scott & Co., 135 Collins-st. W., Melbourne.
- 469 Weise & Monski, Halle a.S.—** Three steam-engine governors.
- Class 48.—Apparatus and Processes used in Agricultural Works and in Works for the Preparation of Food, Irrigation of Land, &c.**
- 470 Augsburger Muhlenbaugesellschaft-vorm. Oscar Oexle & Co., Augsburg.—** Flour roller mill, with smooth and fluted chilled rolls, &c.
- 471 Bitter, Wilhelm, Bielefeld.—** Wine-distilling apparatus. Agents: Palmer, Scott & Co., 135 Collins-st. W., Melbourne.
- 472 Bodenheim, M. B., Cassel, Germany.—** Steam Manufactory of Casks, Vats, &c. (SCHMIDES, ERBLOH & Co., Representatives, Melbourne).
One ready-made Wine Store Cask, of about 500 imperial gallons contents, fitted with Eight Iron Hoops, Manhole, and Iron Screw, and manufactured of the best Slavonic Split Oak Wood.
- One ready-made Wine Store Cask, of about 250 imperial gallons, fitted with Eight Iron Hoops, Manhole, and Iron Screw, and manufactured of the best Slavonic Split Oak Wood. (This Cask is put in pieces and packed in straw and linen to show how the Store Casks will be sent out.)
- RAW STAVES AND HEAD PLANKS** of the best Slavonic Split Oak Wood for Wine Store Casks of about 1000 and 500 imperial gallons contents.
- The Factory, established in the year 1857, and the largest Steam Cooperage of Europe (250 workmen, steam engine of 100 horse power, and more than 60 of the best machines for Cask manufacture), begs to recommend to Brewers, Wine Growers, Spirit Merchants, Sugar Works, and Chemical Works, its Vats, Store Casks, and Barrels for Transporting, Mashing, and Fermenting Tubs, manufactured of the best dry Oak Split Wood, and of excellent make, at moderate prices.
- Awarded with Silver Medal, Melbourne, 1880, and Ten First Prizes.

- 478 Boldt & Vogel, Hamburg, Germany.—** ENGINEERS to the BREWERY and BOTTLING Line.



Recommend especially their Rinsing, Filling, Corking, and Capsuling Machines. PUMPS for every purpose, &c. 49 Exhibition Awards. Agents: T. S. Harrison & Co., 34 Little Collins-st. East, Melb.

- 474 Cannstatter Misch und Knetmaschinen-Fabrik Werner und Pfleiderer, Cannstadt.**—Bakers' kneading & mixing machine.

- 475 Galette, J. A., & Co., Offenbach a. Maine.**—Bottle and cask corking machines, capsuling machines, bottle-washing apparatus, samples of capsules. Agent: J. Levy, 15 Flinders-lane W., Melbourne.

- 476 Herrmann, Rudolph, Stötteritz, Leipzig.**—Flour roller-mills, self-acting machine for re-grinding and re-corragating rolls. Agents: Schreiber and Schaefer, 6 Flinders-lane W., Melbourne.

- 477 Kalkner Trieufabrik und Fabrik-gelochter Eleche, Mayer & Co., Kalk, near Cologne.**—Machines for cleaning grain.

- 478 Kapler, C. G. W., Berlin.**—Various flour roller-mills, "Victoria" machine for cleaning and shelling grain, disintegrator.

- 479 Koch, W., Berlin.**—Store and transport casks of split oak timber.

- 480 Maschinenfabrik Germania, formerly J. S. Schwalbe & Son, Chemnitz, Germany.** Established 1811.—Workmen employed, 900. Representative: Captain C. Wagemann, Melbourne, 5 Queen-street.

SPECIALIES: Ice and Refrigerating Machines. Complete Installations of Breweries and Maltings, Complete Installations of Paper Mills, Wood Pulp, and Board Mills, Cement Factories, and Steam Laundries, Steam Engines, Boilers, Turbines. Pumps. More than 40 per cent. of the value of the annual production exported.

- 481 Nagel & Kaemp, Hamburg.**—Flour roller-mill with four fluted rolls; machine for disintegrating grain. Agent: C. Dornfeld, Powlett-st. and Wellington-parade, E. Melbourne.

- 482 Umbach, Chr., Bietigheim a. Enz.**—Patent steam-cooking pots (digestors), of cast-iron and tinned copper, &c.

Class 49.—Implements, Models, and Plans connected with Irrigation of Land.

- 483 Boldt & Vogel, Hamburg.**—Pumps. Agents: T. S. Harrison & Co., 24 Little Collins-st. East, Melbourne.

- 484 Weise & Monski, Halle a. S.**—Duplex and simplex direct-acting steam pumps.

Class 50.—Apparatus used in Chemistry, Pharmacy, and Tanning.

- 485 Allweiller, Gotthard, Radolf Zell, Baden.**—Pumps of hard rubber for acids.

- 486 Röber, Otto W., Dresden.**—Machines and implements used in the manufacture of soap.

- 487 Schwabe, Dr. W., Leipzig.**—Utensils for preparing homeopathic medicine; homeopathic literature.

- 488 Stettiner Chamottefabrik, Actien-Gesellschaft, vorm. Didier, Stettin.**—Models of retort furnaces.

Class 51.—Machines and Apparatus in General.

- 489 Balcke, Tellering, & Co., Benrath, Düsseldorf.**—Wrought-iron tubes.

Sole Agents for the Australian Colonies: Messrs. Petach, Döehling & Co., 2 Little Collins-street, Melbourne; 332 Kent-street, Sydney.

- 490 Brinck & Hubner, Mannheim.**—Hydraulic ring-press for oily seeds.

- 491 Buse, Sombart & Co., Magdeburg.**—Sombart's patent gas-engine; stationary and portable "Tachometers" (special indicators).

- 492 Clouth, Franz, Rheinische Gummiwaarenfabrik, Nippes, Cologne.**—Belting—patent rubber belt, with cotton core, &c.

- 493 Hydman & Co., Grevenbroich, near Cologne.**—Drawings of sugar manufacturers.

- 494 Gentzen & Wegener, Berlin.**—Asbestos filters, to act direct on water-supply; buckets fitted with asbestos filters.

- 495 Hannoversche Caoutchouc, Gutta-percha, und Telegraphen Werke, Linden vor Hanover.**—India-rubber belting.

- 496 Kemmerich & Co., Berlin.**—Hair and cotton belting. Agents: Weiler, Heidepriem & Co., corner of Queen and Bourke sta., Melbourne.

- 497 Kortum, C., Berlin.**—Rope-fastenings.

- 498 Langen & Hundhausen, Grevenbroich, near Cologne.**—Pumps, refrigerators for beer and milk, condenser, evaporator, &c.; machinery for sugar factories.

- 499 Meinecke, H., Breslau.**—Various water-meters. Agents: Palmer, Scott and Co., 135 Collins-st. W., Melbourne.

- 500 Reimbold Bros., Mettmann, Prussia.**—Samples of patent steel shafting.

- 501 Reisert, Theodor, vorm. Ph. Honold & Co., Augsburg.**—Lubricators for grease.

- 502 Reuschel, Aug., & Co., Schlotheim, Thuringia.**—Cotton and camel-hair belting.

- 503 Schuhmacher, Johann Wltw., Cologne.**—Grease lubricators, and cast-bronze firm-signs for machines.

- 504 Walther & Co., Actien-Commandit-Gesellschaft, Kalk, near Cologne.**—Inexplosible water-tube boilers, &c.

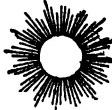
- 505 Weisser, J. G. Sohne, St. Georgen Baden.**—Tools.

Class 52.—Machine Tools.

- 506 Chemnitzer Werkzeugmaschinenfabrik, vorm. J. Zimmermann, Chemnitz.**—Firewood cleaving-machine with circular saw. Agents: Charles Atkins & Co., 65 William-st., Melbourne.

- 507 Dick, Friedrich, Esslingen, Württemburg.**—Tools and files for clockmakers, goldsmiths, instrument makers, mechanics, &c.; tools for butchers.

- 508 Export Union of Saxony, Dresden.**—Export album and directory of Saxon and Thuringian firms.

- 509 Heckhausen, Jean & Weies,** Cologne.—Kneading machine, machine for pressing ornaments, lozenge machine, roller dies, steel dies, &c.
- 510 Heylingenstaedt & Co., Giessen.**—Boring, punching, and bending machines ; shear, foot-lathe with slide-rest, screw-cutting lathe.
- 511 Kalker Werkzeugmaschinenfabrik,** L. W. Breuer, Schuhmacher & Co., Kalk, near Cologne.—Atmospheric hammer, cold-sawing machine, pipe-cutter. Agent : C. Dornfeld, Powlett-st. and Wellington-parade, E. Melb.
- 512 Kircheis, Erdmann,** Aue, Saxony.—Slate-shears, circular shears, sheet-metal punches, and bending-machines, and other tinman's tools. Agents : Palmer, Scott & Co., 135 Collins-st. W., Melbourne.
- 513 Mummenhoff & Stegemann,** Bochum, Westphalia.—Files of different kinds. Agents : Palmer, Scott & Co., 135 Collins-st. W., Melbourne.
- 514 Post, Joh. Casp., & Sohne,** Hagen-Eilpe i. W.—Finished tools of iron and steel.
- 515 Reinhold, C., Barmen.**—Files, rasps, drills, compasses, hand-screws, screw-cutters, sheep-shears, ratchet-drills, Archimedean drills, &c.
- Sheep Shears, Patent.
- 
- TRADE MARK.
- 516 Walz, H., Berlin.**—Lathes and accessories.
- 517 Weisser, J. G., Sohne,** St. Georgen, Baden.—Screw-cutting lathe "Unicum" and other lathes, surface-plates, squares, &c.
- Class 53.—Apparatus and Processes used in Spinning and Rope Making.**
- 518 Felten & Guilleaume,** Mülheim-on-the-Rhine.—Wire-ropes for cable-tramways, mines, suspension-bridges, &c. Agents : W. F. Walker & Co., 17 Flinders-lane West, Melbourne.
- 519 Marx & Co., Harburg,** near Hamburg.—Safety fuses. Agents : Schreiber & Schaefer, 6 Flinders-lane W., Melbourne.
- 520 Reuschel, Aug., & Co., Schlotheim,** Thuringia.—Various hammocks, netted bags for vegetables, firemen's belts, &c.
- Class 54.—Apparatus and Processes used in Weaving.**
- 521 Berlin Knitting Machine Works, S. Levy,** Berlin.—Knitting machines for various work.
- 522 Claes & Flentje,** Mühlhausen, Thuringia.—Knitting machines for manufacturing stockings; plain and figured fancy goods. Agents : Pfaff, Pinschhof & Co., 13 Flinders-lane W., Melbourne.
- 523 Stahlknecht Bros.,** Stollberg, near Chemnitz.—Drawings and catalogues of round and straight knitting frames.
- Class 55.—Apparatus and Processes for Sewing, and for making up Clothing.**
- 524 Bremer & Bruckmann,** Braunschweig.—Hand sewing machines, "Brunonia"; hand sewing machines for children.
- 525 Butenberg, Heisch & Co., Aachen.**—Pins and needles. Agents : Ostermeyer, Dewez and Co., 131 Collins-st. W., Melbourne.
- 526 Claes & Flentje,** Mühlhausen, Thuringia.—Elastic cylinder sewing machines for shoemakers. Agents : Pfaff, Pinschhof & Co., 13 Flinders-lane W., Melbourne.
- 527 Grimmie, Natalie & Co., Commandit-Gesellschaft auf Actien,** Braunschweig.—Sewing machines for families and workmen.
- 528 Nahmaschinen-Fabrik vorm. Frister & Rossmann,** Berlin.—Hand and treadle sewing machines, washing machines.
- 529 Pfaff, G. M., Kaiserslautern, Bavaria.**—Family sewing-machines, sewing-machines for workmen's use.
- 530 Schirmer, Blau & Co., Berlin.**—Embroidery machine.
- 531 Wertheim, J., Frankfurt a. Maine.**—Manufacturer of the "Wertheim" sewing machines. Sole agent : Hugo Wertheim—Head office, 44 Lonsdale-st. E., Melbourne, and depots in every town of importance.
- Class 56.—Apparatus and Processes used in the Manufacture of Furniture and Objects for Dwellings.**
- 532 Crotogino, Gebr., Schweidnitz, Silesia.**—Planing-bench, planes, saws, lathes for turning wood and iron. Agents : Schreiber & Schaefer, 6 Flinders-lane W., Melbourne.
- 533 Fiedler & Faber,** Lindenau, near Leipzig.—Universal wood-working machine, driven by hand or foot. Agents : Balfour, Elliott & Co. Ltd., 5 Queen-st., Melbourne.
- 534 Flek, C. L. P., Sons,** Berlin.—Wood-working machinery.
- 535 Nahmaschinen-Fabrik vormals, Frister & Rossmann,** Berlin.—Wood-etching machine.
- Class 57.—Apparatus and Processes used in Paper-making, Dyeing, and Printing.**
- 536 Berthold, H., Berlin.**—Brass types for printers.
- 537 Jaenecke, Gebr. & Fr. Schneemann** Hannover.—Black and coloured typographic and lithographic printing-inks, varnishes, specimens. Agents : Pfaff, Pinschhof & Co., 13 Flinders-lane W., Melbourne.
- 538 Krause, Carl,** Leipsic.—Universal paper-cutting machine, gold-blocking presses, millboard-cutting machines, perforating and scoring machines.
- 539 Lobler, Th. Mannheim.**—Wood types. Agents : Pfaff, Pinschhof & Co., 13 Flinders-lane W., Melbourne.
- 540 Lucke, C., Eilenburg.**—"Liberty" platen press, hand and treadle perforating machines. Agents : Schreiber and Schaefer, 6 Flinders-lane W., Melbourne.
- 541 Sachs & v. Fischer, Erste Mannheimer Holztypen-Fabrik,** Mannheim.—Wood types for printing placards. Agents : F. Berndt & Co., 1 Flinders-lane W., Melbourne.
- 542 Weiler, F. M., Berlin.**—"Liberty" printing machine. Agents : F. Berndt & Co., 1 Flinders-lane West, Melbourne.

SOLE AGENTS FOR COLONIES : **PFAFF, PINSCHOF & CO.,** Melbourne.

.543 **Wilhelm Gronau's Buchdruckerei und Schriftgiesserei**, Berlin.—Types, stereotypes, electrotypes, die stamps, specimen books, &c. Agents: Pfaff, Pinschöf & Co., 13 Flinders-lane W., Melbourne.

.544 **Wilhelm Woellmer's Schriftgiesserei**, Berlin.—Types in various stages of manufacture, type-founders' implements, specimen books, &c. Agents: F. Berndt & Co., 1 Flinders-lane W., Melbourne.

Class 58.—Machines, Instruments, and Processes used in various Works.

.545 **Creutz, N., in Firma W. Creutz & Co.**, Cigar and Cigar Bundler Manufactory, Aix-la-Chapelle.—Cigar bundlers, with bundle table.

.546 **Krause, Carl**, Leipzig.—Book-back rounder, edge cutting machine, rolling-mill for bookbinders, &c. Agents: F. Berndt & Co., 1 Flinders-lane W., Melbourne.

Class 59.—Carriages and Wheelwrights' Work.

.547 **Dick & Kirschten**, Offenbach a. Maine.—Glass landau, unfinished frames, axle journals, springs, carriage furniture, &c. Agents: Ostermeyer, Dewez & Co., 131 Collins-st. W., Melbourne.

.548 **Kuhlstein, Ed.**, Charlottenburg.—Chariot, landau, and dog-cart.

Class 60.—Harness and Saddlery.

.549 **Leunier, E. G.**, Bautzen.—Silver-plated harness and six leathern collars.

Class 61.—Railway Apparatus.

.550 **Bochumer Verein fur Bergbau und Gussstahlfabrikation**, Bochum I. W.—Complete narrow-gauge railway plant; rails, sleepers. (See Classes 47, 63, 65, 75, 82.)

.551 **Locomotiv-Fabrik Krauss & Co., Aktien-Gesellschaft**, Munich.—Krauss' tank locomotive, two axles, for narrow-gauge railways.

.552 **Schulke, L.**, Düsseldorf.—Railway sleepers made of worn-out rails.

Class 62.—Electric, Pneumatic, and other Apparatus and Processes.

.553 **Aron, Dr. H.**, Berlin.—Instruments for measuring electric currents.

.554 **Berliner J.**, Hannover.—Telephonic apparatus, electric bells, press buttons, etc. Agent: S. de Beer, Clark's Buildings, Bourke-st. W., Melbourne.

.555 **Butzke, F., & Co.**, Berlin.—Patent brilliant gas lamps. Agent: Frederick Holtz, 28 Queen-st., Melbourne.

.556 **Elektrotechnisches Institut Rupert Scheibauer**, Dresden.—Arc-lamps for shunt, differential arc-lamps, resistances, voltmeter, &c.

.557 **Felten & Guilleaume**, Mühlheim-on-Rhine.—Telegraph and telephone wire, electric cables of every kind, &c. Agents: W. F. Walker, 14 Flinders-lane West, Melbourne.

.558 **Hannoverische Caoutchouc, Gutta-percha, and Telegraphen Werke**, Linden vor Hanover.—Insulated wire and cable.

.559 **Mix & Genest**, Berlin, S. W.—Telerhōrm and telegraphic apparatus for domestic purposes, &c.

.560 **Naglo Brothers**, Berlin.—Portable telegraph apparatus for railways, Morse instruments, electric fire signals, &c.

Class 63.—Apparatus and Processes of Civil Engineering, Public Works, and Architecture.

.561 **Alsen'sche Portland Cement-Fabriken**, Hamburg.—Portland cement.

.562 **Breitenburger Portland - Cement-Fabrik**, Hamburg.—Portland cement. Agents: Pfaff, Pinschöf & Co., 13 Flinders-lane W., Melbourne.

.563 **Bochumer Verein fur Bergbau und Gussstahlfabrikation** (Cast Steel Factory), Bochum, Westphalia.—A complete narrow-gauge railway; 24-inch gauge, equal to 600 mm.; length, 2000 yards, and 60 wagons (to be found under Classes 47, 61, 65, 75, 82).

.564 **Brandes, H. C.**, Berlin.—Iron safes.

.565 **Bruhs, C. D. C.**, Hamburg.—Plain and ornamental bedsteads of wrought iron; surgeons' chairs for men and women.

.566 **Act: Ges: fur Bildhauser Arbeiten Stuck and Gipps**, manufacture-vorm, Dankberg Bros. Ltd., Berlin.—Plaster-of-Paris

.567 **Eisenwerk Schlader**, A. & G., Kammerich, Schlader a. d. Sieg.—Corrugated-iron constructions: ceiling, stair, transportable booth.

.568 **Faconeisen Walzwerk L. Mannstaedt & Co.**, Kalk, near Cologne.—Samples of ornamental wrought iron for verandahs, &c.

.569 **Fewer, Ed.**, Lägerdorf, near Itzehoe.—Portland cement. Agents: Ostermeyer, Dewez & Co., 131 Collins-st. W., Melbourne.

.570 **Fitzner, Wilhelm**, Laurahutte, O. S.—Welded sheet-ware: tubes, bottle for liquid carbonic acid, crucible, retort-head, &c.

.571 **Frohlich & Wolff**, Kassel.—Miniature tents of impregnated canvas; collection of canvas.

.572 **Gutlike, Paul**, Dresden.—Wrought-iron, stamped, and press forgings for engineers; gate ornaments, &c.

.573 **Hein, Lehmann & Co.**, Berlin.—Corrugated iron, of various kinds; casks, of corrugated iron; drawings, photographs, &c. Agents: Palmer, Scott & Co., 135 Collins-st. W., Melbourne.

.574 **Hemmerling, J.**, Düsseldorf.—Flooring, of mosaic tiles. Agents: Weiler, Heidepriem & Co., corner of Queen and Bourke Sta., Melbourne.

.575 **Kessel & Rohl**, Berlin.—Specimens of Swedish and Norwegian granite; photographs of the quarries, manufactories, &c.

.576 **Lamberty, Servais & Co.**, Tile Manufactory: Ehrrang, near Treves.

Gold Medal, Antwerp, 1885.

Flooring and Paving Tiles in various shapes and colours. Equal to glass in hardness. Universally used in public buildings. Annual output, 250,000 square metres.

Schmedes, Erbelöh & Co., London, Melbourne, etc., Agents.

.577 **Landauer, J.**, Leipsic-Reudnitz.—Water-proof roofing linen—samples, descriptions, and model.

.578 **Mannheimer Portland Cement-Fabrik**, Mannheim.—Portland cement.

- 579 Ostertag, J., Aalen, Württemberg.**—Fire and burglar proof safes, with single and double doors.
- 580 Pfeiffer, J., Pforzheim, Baden.**—Fire and burglar proof safes.
- 581 Portland Cement-Fabrik Hemmoor, Hemmoor a. d. Oste.**—Portland cement, plate and blocks of cement. Agents: Pfaff, Pinschöf and Co., 18 Flinders-lane W., Melbourne.
- 583 Thonwarenfabrik der Magdeburger Bau Bank (late O. Duvignean & Co.), Magdeburg.—Tiles for flooring and walls.**
- 584 Vorwohler Portland Cement-Fabrik Prussing, Planck & Co., Holzminden.**—Cement material, artificial stones, pipes, concrete.
- 585 Wimmell, P., & Co., Berlin.**—Plates of sandstone and limestone, with inlaid work, specimens of stones, &c.
- Class 64.—Navigation and Life Saving.**
- 586 Clouth, Franz, Rheinische Gummiwarenfabrik, Nippes, Cologne.**—Diving apparatus, swimming belt, life preserver.
- 587 Cordes, H. G., Bremerhaven.**—Guns for throwing life-lines, models of life-rockets, signal-rockets and lights, &c. Agents: Ostermeyer, Dewez & Co., 131 Collins-st. W., Melbourne.
- 588 Felten & Guilleaume, Mulheim-on-the-Rhine.**—Wire ropes for ships. Agents: W. F. Walker & Co., 17 Flinders-lane West, Melbourne.
- 589 Fitzner, Wilhelm, Laurahütte, O.S.**—Welded can-buoy.
- 590 Schichau, F., Elbing, Germany.**—Iron-founder, Maker of Locomotives, Torpedoes, and various other Engines; Shipbuilder.
- Sole Agents for the Australian Colonies: Messrs. Petsch, Döehling & Co., 2 Little Collins-st., Melbourne; and 332 Kent-st., Sydney.

Class 65.—Materials and Apparatus for Military Purposes.

- 591 Bochumer Verein fur Bergbau und Gusstahlfabrikation (Cast Steel Factory).—(See Classes 47, 61, 63, 75, 82.)**
- 592 Geitner's, Dr., Argentanfabrik F. A. Lange, Anerhammer, near Aue, Sax.**—Argentan, sheet and wire.
- 593 Gruson, H., Iron Works, Buckbau, near Magdeburg.**—Model of chilled iron turret for defence.

VIII.

Alimentary Products.

- Class 66.—Cereals, Farinaceous Products, and Products derived from them.**
- 594 Henniger, Max, Berlin.**—Vermicelli and macaroni in various shapes and qualities.
- 595 Lange & Lampe, Vegesack, near Bremen.**—Rice starch.
- 596 Liebe, J. Paul, Dresden.**—Pure and medicated extract of malt, Liebe's soluble food for infants, Liebe's soluble leguminosé, &c.
- 597 Stempfle, G., Oberstdorf, Allgau.**—Flour for children's nourishment.

- Class 67.—Bread and Pastry.**
- 598 Soekeland, E., & Sons, Berlin.**—Bread and pumpernickel, in tins.

Class 68.—Fatty Substances used as Food. Milk and Eggs.

- 599 Blumenthal, Dr. Moritz, Grünau, near Berlin.**—Kennet powder, preserving salt, &c.
- 600 Raedler, F. A., Westerrade, near Segeberg.**—Preserved butter and cheese. Agents: Pfaff, Pinschöf & Co., 13 Flinders-lane W., Melbourne.

- Class 69.—Meat and Fish.**
- 601 Busch, H. C., Kiel.**—Kiel sprats, smoked eel, and German sardines, in oil, tinned. Agents: Balfour, Elliott & Co. Ltd., Queen-st., Melbourne.
- 602 Kruger, F. W., Barth a. d. Ostsee.**—Preserved fish, Baltic salmon, eel, and pike in aspic; herrings, in wine jelly.

- 603 Opel, August, Apolda.**—Preserved pork-veal and goose-liver sausages, with and without truffles; and various other kinds of sausages in tins.

- 604 Raedler, F. A., Westerrade, near Segeberg.**—Fresh and smoked sausage, canned sausage.

- Class 70.—Vegetables and Fruit.**
- 605 Bassermann, M. F., & Co., Schwetzingen, Baden.**—Preserved vegetables. Agents: Weiler, Heidepriem & Co., corner of Queen and Bourke Sts., Melbourne.

- 606 Conserven-Fabrik Lepp, Danzig.**—Preserved fruits, in bottles; cordials, punch, essences, &c.

- 607 Schreiber, Hermann, Schweinfurt.**—Dried vegetables, beans, potatoes in slices, &c. Agents: Schreiber & Schaefer, 6 Flinders-lane W., Melb.

- Class 71.—Condiments and Stimulants, Sugar and Confectionery.**

- 608 Loth, Ernst, & Co., Halberstadt.**—Mustard, finely ground flour of mustard, free from fat oils; bottled grape-vinegar. Agents: Schreiber & Schaefer, 6 Flinders-lane W., Melbourne.

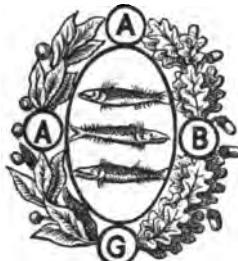
- 609 Stollwerk, Gebrüder, Cologne.**—Chocolate cocoas, comfits, Dr. Michaelis' acorn cocoa, effervescent lemonade bonbons. Agents: Weiler, Heidepriem & Co., corner of Queen & Bourke Sts., Melbourne.

- 610 Syrup and Starch-Sugar Manufactory, Wronke, Germany.**—Glucose manufacture.

K. P.
Trade W. Mark.

Class 72.—Fermented and Distilled Drinks.

611 Apenrader Actien-Brauerei-Gesellschaft, EXPORT BEER.



General Agent for the Exhibition: R. M. Wenley, 1 Queen-st., Melbourne, Sole Agent for Australia.

612 Arp, Ernst L., Kiel.—Pepsine bitters, pepaine wine.—Agent: J. Levy, 15 Flinders-lane W., Melbourne.

613 Bergish Brewery Comp. Ltd. (late Gustav Küpper), Elberfeld.—Export beer.

614 Berlin Union Brewery, Berlin.—Light and dark lager beer in bottles.

615 Brewery Comp. Ltd., Bremen.—"Excelsior" beer in bottles.

616 Brewery, Marienthal, Actien-Ges., at Wandsbeck, Hamburg.—Bottled lager beer. Agents: Schreiber & Schaefer, 6 Flinders-lane W., Melbourne.

617 Broche, George, Berlin.—Berlin corn kuemmel, various liqueurs; fruit extracts.

618 Conserven-Fabrik Lepp, Dantzig.—Cordials, punch, essences, &c.

619 Deinhard & Co., Coblenz.—Still and sparkling wines.

620 Deutsche Weingesellschaft Duhr & Co., Cologne.—Still and sparkling Hock, Moselle, and Ahr wines, German cognac, punch syrups.

621 Emperor Brewery, Beck & Co., Bremen.—Bottled beers: "Kaiser" beer, suitable for the tropical climates, and lager beer. Agents: Jacobs, Hart & Co., 72 Queen-st., Melbourne.

622 Export-Brewery of Adelshoffen, Schiltigheim, near Strassburg i. E.—Bottled beer.

623 Flensburger Brewery Co. Ltd., Flensburg.—Bottled export beer.

624 Frankfurter Brewery Co. Ltd., late Heinr. Henninger & Sons, Frankfort-on-the-Maine.—Bottled beer. Agents: Weiler, Heidepriem & Co., corner of Queen and Bourke Sts., Melbourne.

625 Fromm, J., Frankfort-on-Maine, Purveyor to the Court and German Army and Navy.

BERRY RED WINE.—STILL: Absolutely pure, mild taste, better and more wholesome than most other red wines. SPARKLING: Plenty of effervescence, equal to best French. Highly recommended. Agents: Weiler, Heidepriem & Co., corner of Queen and Bourke Sts., Melbourne.

626 Gaardener Brewery, J. C. Dreis, successor Drews & Co., Gaarden, near Kiel.—Export beer. Agents: Wedeler and Kinghorn, 32 Flinders-lane W., Melbourne.

627 Gewalt, Emil, Gotha.—Currant, gooseberry, bilberry, and raspberry wine; cider. Agent: Frederick Holtz, 28 Queen-st., Melbourne.

628 Gilka, J. A., Berlin.—Various liqueurs. Specialty—Berlin Kuemmel. Export to all parts of the world.

629 Gruner & Co., Siegmar, Saxony.—German cognac.

630 Hansa Brewery, Johs. Uter & Co., Lübeck.—Beer.

631 Helmer's W. N. Wwe. & Sohn, Hamburg.—Spirits and liqueurs.

632 Hoff, M., Hamburg.—Johann Hoff's malt extract.

633 Hollack Bros., Dresden.—Malt extract beer, a particular healthy beverage; malt liqueurs, malt syrup, grist. Agents: Weiler, Heidepriem & Co., corner of Queen and Bourke Sts., Melbourne.

634 Holtfreter, L., Stralsund.—Spirits—"Stralsunder Korn," genova, punch essences, bitters, ginger, liqueurs, &c., fruit juices. Agent: Frederick Holtz, 28 Queen-st., Melbourne.

635 Huesgen, J. W., Traben a.d. Mosel.—Various sparkling Moselles, German champagne. Agents: Schreiber and Schaefer, 6 Flinders-lane W., Melb.

636 Kantorowicz, David, Posen.—Spirits, in bottles.

637 Kantorowicz, Hartwig, Posen.—Bitters and liqueurs. Agents: J. Kronheimer & Co., 32 Queen-st., Melbourne.

638 Kieler Brewery Co. Limited, late Scheibel, Kiel.—Bottled beer.

639 Koolman & Brauer, Leer.—German corn geneva, in bottles.

640 Krugel, Carl, F. L.; proprietor, C. Mielentz, Jüterbog.—"Benedictiner" liqueur, liqueur "Triumpf."

641 Lang, F. Joseph, Würzburg.—Sparkling wines—Moselle, Hock, Flower of the Rhine, Hock-Assmannshausen, &c.

642 Maul, Otto, Leipzig.—"Wermuth wine," prepared of pure wine, wormwood, and other therapeutic plants. Agents: Schreiber and Schaefer, 6 Flinders-lane W., Melbourne.

643 Meyer, E. Eduard, Court Purveyor, Stadt-hagen.—Distillation of Meyer's corn brandy and bitters called 52. Agents: Anderson and Marshall, 33 Exchange, Melbourne.

644 Moller, M. B., Flensburg.—"Bommerlunder Tafel-Getreide-Aquavit" (cordial).

645 Nickau & Co., Leipsic-Gohlis.—"Leipsic Gose" (beer), and Leipsic "Kindl" export beer, in bottles.

646 Pschott, G., Munich.—Bottled beer. Agents: H. Haege & Co., 31 & 33 Flinders-lane W., Melbourne.

647 Rheingauer Obstkelterei und Obst-Niederlage von Dr. Kraft, Schierstein-on-the-Rhine.—Wines prepared from fruits and berries.

648 Ripke, T. (as trustee of Dr. Theodor Meinhard), Hamburg.—Dr. Theodor Meinhard's "Amargo de Bolivar" (a bitters).

649 Russak, J., Koeten, Posen.—"Iwan," best Russian table-bitters; "Parade-bitter," fine dessert liqueur. Agent: Schreiber & Schaefer, 6 Flinders-lane W., Melbourne.

650 Schwensen & Fehrs, Kiel.—Bottled export beer. Agents: Pfaff, Pinschhof & Co., 13 Flinders-lane W., Melbourne.

Awarded the first and second prize at the Centennial Exhibition in Adelaide For their Light and Dark Export Lager Beer.

Durability guaranteed. Agents: PFRAFF, PINSCHOF & Co., HAMBURG, Melbourne, Sydney, Adelaide, & Brisbane.

- 651 Schmidt, Fr., Neunkirchen (R. B. Trier).—Bottled export beer. Agents: Schreiber & Schaefer, 6 Flinders-lane W., Melbourne.
- 652 Simms, Henry B., Hamburg (as trustee of the Kaiserbrauerei-in-Niedermendig).—Lager beer.
- 653 Spelmann, Ad., Hannover.—“Capuziner-Doppelkrauter - Magenbitter,” and “Hannoversche Magentropfen,” both being medical bitters. Agents: Wedeler and Kinghorn, 32 Flinders-lane W., Melbourne.
- 654 Stibbe, Hermann, Cologne.—Liqueurs, in bottles.
- 655 Stremlow, W., Dantzig.—Various liqueurs.
- 656 St. Pauli Brewery, Brandt, Ch. Wilh., Bremen.—Beer, in bottles.
- 657 Syre, Carl, Hinternah, near Schleusingen, Thuringia.—Blackberry and bilberry wine, divers fruit syrups, raspberry, lemonade, essence, &c.
- 658 Tetzlaff, Gustav, in the firm Ferdinand Krause, Cammin in Pomerania.—Liqueurs.
- 659 Thies, Hermann, Elterlein, Saxony.—“Fischers Vorbeugter,” a bitters prepared from mountain herbs; raspberry, lemonade. Agents: Weiler, Heidepriem & Co., corner of Queen and Bourke Sts., Melbourne.
- 660 Underberg-Albrecht, H., Rheinberg-on-the Niederrhein.—“Boonekamp of Maag-bitter,” stomachic bitters. Agents: Lange & Thonemann, 69 and 71 William-st., Melbourne.
- 661 Vereinsbrauerei (Union Brewery), Bergedorf, Hamburg.
- This export Beer is acknowledged to be the FINEST shipped from the Continent, and the ONLY ONE that can show up such a BEAUTIFULLY CLEAR COLOUR. It is ESPECIALLY brewed for hot climates, and can be kept for months WITHOUT SHOWING THE SLIGHTEST SEDIMENT. It is known as a WHOLESOME and REFRESHING drink, free from injurious ingredients so common with inferior brands. It has found favour in all foreign markets, and is the LEADING BRAND in most of them.
- PRIZE MEDALS were awarded it at the Exhibitions of Altona, 1869; Melbourne, 1880; Amsterdam, 1883; Caracas, 1883; London, 1885; and Antwerp, 1885.
- Melbourne Importers: Messrs. McIlwraith, M'Eachern & Co., William-st.
- 662 Voigt, H., & Co., Holzdorf, Bez. Halle a. S.—“Wachholderbier” (juniper-beer), a beverage from malt, hop, and juniper..
- 663 Ziffer, L., Berlin.—Pepsine wine and pepsine liqueurs.

IX.

Sanitation, Medicine, Hygiene, and Public Relief.

- Class 73.—Sanitary Appliances, Surgical Instruments, Plans, Models, &c.
- 664 Arnold, Max, Chemnitz.—Preparations used in the antiseptic treatment of wounds, articles for nursing, sticking-plaster, &c.
- 665 Arnold & Schirmer, Berlin.—Patent Schnell filter. Agents: Pfaff, Pinschhof and Co., 13 Flinders-lane West.
- 666 Clouth, Franz, Rheinische Gummiwaarenfabrik, Nippes, Cologne.—Surgical india-rubber goods, tourniquet braces.
- 667 Engler, Georg, vorms, Engler & Weber, Stuttgart.—Arm and chest strengthener, a gymnastic apparatus. Agents: Joseph & Goldschmidt, 13 Flinders-lane W., Melbourne.
- 668 Gumbrecht & Prokasky, Berlin.—Dr. J. Grossmann's hygiene dresses and bandages.
- 669 Koch & Co., Berlin.—Cases, with instruments for operating giddy sheep; and haircutting machine.
- 670 Moller, Oscar, Hamburg.—Surgical and medical instruments, syringes, percussors, stethoscopes, trocars, speculums, thermometers.
- 671 Schafer, Emil, Chemnitz.—Stuffs for bandages.
- Class 74.—Apparatus and Processes for Heating and Lighting.
- 672 Breymann & Hubener, Hamburg.—Collection of regenerative gas lamps.
- 673 Conradty, C., Nuremberg.—Carbon pencils for electric arc lamps.
- 674 Lampel, Bruno, Cologne.—Zinc torches (Dax's patent). Agent: J. Levy, 15 Flinders-lane W., Melbourne.
- 675 Muller, A. W., Berlin.—Lamps, in china and majolica, mounted in real and imitation bronze.
- 676 Naglo Bros., Berlin.—Arc and incandescent lamps, and various instruments for electric lighting.
- 677 Pahde, Carl, Cologne.—Divers cooking apparatus, egg tester, and cooking appliances, lanterns for ships and railways, chamber commodes, &c.
- 678 Sewing Machine Factory Company Ltd. (late Frister & Rossmann), Berlin.—Portable electric lamps.
- 679 Wild & Wessel, Berlin.—Collection of table and hanging lamps in metal, china, glass, and majolica.

X.

Agricultural and Associated Industries.

Class 75.—Specimens of Farm Buildings and Agricultural Works.

- 680** Koch & Co., Berlin.—Sheep shears, horse clippers, tattooing machines for marking sheep, trocars, &c.
681 Bochumer Verein fur Bergbau und Gussestahlfabrikation (Cast Steel Factory), see Classes 47, 61, 63, 65, 82.

XI.

Horticulture.

Class 76.—Conservatories and Horticultural Apparatus.

- 682** Allweiler, Gotthard, Radolfzell, Baden.—Garden syringes, portable and stationary hand pumps, fittings, &c.

Class 80.—Seeds and Saplings of Forest Trees.

- 683** Arnthal & Horschutz Bros., Seed Merchants, Hamburg.—Seeds. Agents: Joseph & Goldschmidt, 13 Flinders-lane W., Melbourne.

684 Barends, Alb. Aug., & Co., Hamburg.—Clover, grass, and field seeds. Representative: Rudolph Barends, Melbourne.

685 Liefmann, R., Sohne Nach., Hamburg.—Clover and agricultural seeds. Agents: Dalgety and Company, Melbourne.

XII.

Mining Industries—Machinery and Products.

Class 82.—Apparatus and Processes of the Art of Mining and Metallurgy.

- 686** Bochumer Verein fur Bergbau und Gussestahlfabrikation.—Transportable and stationary narrow-gauge railways (see Classes 47, 61, 63, 65, 75).

- 687** Brinck & Hubner, Mannheim.—Stone-crusher for ores and stones; roller mill, with feeding regulator; disintegrator.

- 688** Maschinenbau, Anstalt "Humboldt," Kalk, near Cologne.—Edge-mill for crushing and amalgamating auriferous pyrites.

- 689** Roessmann & Kuhnemann, Berlin.—Portable forges.

- 690** Schurzke, C., Charlottenburg, near Berlin.—Moulding, sand-mixing machine for iron-founders.

Class 83.—Mining and Metallurgy.

- 691** Bongardt Bros. & Co., Hohenlimburg i. W.—Hammers, axes, chisels, coloured wire-cloth, steel bands, steel bars.

- 692** Burnip, W., & Co., Hamburg.—Rolled irons—T iron, mining rails, channel iron, &c.; ready-made railways. Agents: W. Burnip & Co., 49 Flinders-lane W., Melbourne.

- Collective Exhibition of the Potash Industry, Salt, and Manufactured Products; Twenty-one Exhibitors.

- 693** Ascania Chemical Works, at Leopoldshall, late F. R. Kiesel, Complim in Leopoldshall.

694 Berk, F. W., Chemical Works at Stassfurt.

695 Concordia Chemical Works Limited, at Leopoldshall.

696 Ducal Administration of Anhalt for the Saltworks at Leopoldshall.

697 Kali Works, Aschersleben.

698 Konsol: Alkali Works, Westeregehn.

699 Kletz, C., Leopoldshall.

700 Lindemann & Co., Stassfurt.

701 Maigatter, Green & Co., Leopoldshall.

702 Muller, Fr., Leopoldshall.

703 Muller & Allihn, Leopoldshall.

704 Nette, Faulwasser, C., & Co., Leopold shall.

705 Royal Prussian Mining Administra-tion at Stassfurt.

706 Royal Prussian Mining Administra-tion at Schonebeck.

707 Salt Mines, New Stassfurt, near Löderburg.

708 Saltworks, Ludwig II., Stassfurt.

709 Schachnow & Wolff, Leopoldshall.

710 Stassfurt Chemical Works (late Vorster & Grüneberg Comp. Ltd.), at Stassfurt.

711 United Chemical Works Comp. Ltd., at Leopoldshall.

712 Vienenburg Kaliworks, Hercynia, at Vienenburg-on-the-H.

713 Wustenhagen & Co., at Hecklingen.

714 Deutsche Asphalt-Actienges., der Limmer und Vorwohler Grubenfelder, Hannover.—Raw asphaltum, asphalt mastic, asphalt sheets, &c. Agents: Pfaff, Pinschot & Co., 13 Flinders-lane W., Melbourne.

715 Deutsche "Globe" Hufnagel-Fabrik, Bahnhofeld, near Altona.—Different horse-shoe nails. Agents: Wedeles & Kinghorn, 32 Flinders-lane West, Melbourne.

716 Dusseldorf Tube and Iron Works, (late Poensgen, Dusseldorf, Oberbilk).—Tubes of various kinds.

717 Felten & Guilleaume, Mulheim-on-Rhine.—Manufacturers of High-class Steel Fencing Wire (Varnished, Oiled, and Galvanised). Patent Steel Barbed Wire, and Strand Fencing; Iron, Steel, Copper, and Brass Wire of every description, especially Telegraph and Telephone Wire, Rope Wire, Spring Wire, Mattress Wire, Bottling Wire; Patent Steel Music Wire; Hardened and Tempered Steel Card Wire, etc. Patent "Spiralium" Wire Door Mat.

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Agents at Melbourne: W. F. Walker & Co., 14 Flinders-lane West. Agents at Sydney: Rabone, Fezz & Co., 42 Pitt-street North.

718 Gewerkschaft Schulz Knaudt, Essen-on-the-Ruhr.—Corrugated flues, boiler end, fire-box bottom of a marine boiler, welded tubes. Agents: Palmer, Scott & Co., 135 Collins-st. W., Melbourne.

719 Haendler & Natermann, Hannov, Münster.—White and coloured metal capsules, white and coloured tinfoil. Agent: Julius Levy, 15 Flinders-lane W., Melbourne.

720 Hammel, Gustav, Schwelm i. W.—Anvils, screw-drivers, files, locks, drills, and steel in bars.

721 Kissing & Mollmann, Iserlohn.—Brass and bronze ware: window galleries, hat hooks, gas and water fittings.

722 Lohmann & Soeding, Witten a.d. Ruhr.—Stamped shovels, spades, hoes, pans, &c., made of cast-steel sheet. Agents: Pfaff, Pinschot & Co., 13 Flinders-lane W., Melbourne.

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Agents: PFAFF, PINSCHE & CO.,

HAMBURG, Melbourne, Sydney, Adelaide, and Brisbane.

723 Pfaff, Georg., Wiesbaden.—Bottle capsules of every kind, white and coloured tinfoil boxes. Agents: Pfaff, Pinschot & Co., 13 Flinders-lane W., Melbourne.

724 Pfeiffer & Druckenmuller, Berlin.—Model of a house constructed entirely of corrugated bearing iron; samples of corrugated iron.

725 Post, Joh. Casp., and Sons, Hagen Ellpe i. W.—Finished and unfinished iron castings.

726 Stantien & Becker, Königsberg i. Pr.—Real and imitation amber, raw and wrought. Agents: J. Kronheimer & Co., 32 Queen-st., Melb.

727 Thiemer & Schuttger, Bischofswerda, Saxony.—Artificial stones, artificial whetstones, artificial polishing wheels for clock-making, &c. Agents: Schreiber and Schaefer, 6 Flinders-lane W., Melbourne.

728 Tremser Ironworks, Koch & Co., Trens, near Lübeck.—Stamped and enamelled sheet-iron kitchen furniture, &c.

729 Westphalian Wood-screw Works, Gerdes & Co., Schwelm i. W.—Screws of all kinds, iron and brass wood-screws, bolts, and nuts.

730 Westfälischer Draht, Industrie Verein.—Bismarck steel fencing wire.

The Berlin Union of Manufacturers is represented by 56 exhibitors. Agent: Mr. Paul Gutike, Melbourne and Sydney.

Geisberg & Wied, Alt., Chemnitz.—Delivered curtain stuffs through Bernan, Berlin, for the decorations of the German Court.

INTRODUCTION TO THE FRENCH COURT.

THESE are special circumstances tending to enhance the interest attaching to the position of France as an exhibitor on the present occasion. The disposition of the French people, in common with their Teutonic neighbours, to extend commercial relations with Australia has already been shown in the arrangements which have existed for years for the purpose of securing regular monthly visits of a national line of steamers at the southern Australian ports. But the desire of the French Government, no less than of the trading classes of France, to enlarge the area of mercantile intercourse with us, is also notably apparent in the fact that, notwithstanding the supreme effort now being put forth by her to render the great commemorative International Exhibition to be held in Paris next year worthy of her illustrious history, the Government of the Republic has decided to be officially represented at the present Australian Centennial celebration.

POPULATION.—Not the least remarkable feature in French experience, during the last twenty-two years, is the fluctuations which have marked the extent of the population. In the ten years between 1875 and 1885 Germany added upwards of 4,000,000 to her numbers, and between 1878 and 1887 the United Kingdom increased by 3,500,000, although both the latter nations have been subjected to exceptional depletion by emigration throughout the whole period to which the calculation applies. The people of France, on the contrary, proverbially cling to the land of their birth. Yet, in the decade from 1876 to 1886, the population only increased 1,250,000—from 36,905,798 to 38,218,903. The latter figure shows only an advance of about 140,000 compared with 1866. But by the terms of the Franco-German Treaty of Peace, concluded in 1871, France unfortunately lost one entire department, that of Bas-Rhin, two arrondissements, with fractions of a third, of the adjoining department of the Haut-Rhin, and the greater proportion of the department of the Moselle. In the four years between 1872 and 1876 the increase of population amounted to 2·2 per cent., which was attributable in part to immigration from the provinces ceded to Germany. In the five years between 1876 and 1881 the increase was 766,260, or 2·1 per cent., and between 1881 and 1886 it was 546,855. The excess of females over males is stated by statistical authorities to be smaller than in any other state of Western Europe. The census of 1881 showed the number of families to be 10,399,885, being an average of 3·50 individuals to a family. It should be mentioned that the increase specified above as taking place between 1881 and 1886 did not extend to all the departments. In thirty-two departments a decline of population was noted (as compared with thirty-four between the two previous censuses), amounting in all to 110,838. The fact cannot fail to arrest attention that the increase of population in France, within the last century and a half, has been comparatively less than in any other state of Western Europe. The natural increase, consisting of the surplus of births over deaths, amounted, when it reached the maximum, between the years 1820 and 1830, to not quite 280,000 per annum, and during part of the decennial period, 1850-60, receded to 51,200 per annum. In 1870 and 1871 the deaths exceeded the births, the excess of deaths amounting to 103,394 in 1870, and to 444,889 in 1871, doubtless owing chiefly to the ravages of war. The birth-rate per 100 inhabitants fell from 3·11 in 1827 to 2·62 in 1868. It sank further to 2·57 per cent. in 1869, and to 2·26 per cent. in 1871. It rose to 2·61 in 1873, and again to 2·64 in 1875. But in 1886 there was only 2·38 per cent. of living births per 100 inhabitants, a birth-rate lower than that of any other country in Europe; the surplus of births over deaths in the latter year being only 52,560. The number stillborn, moreover, which was 39,778 in 1863, gradually increased, reaching 43,875 in 1879, 43,958 in 1885, and 43,581 in 1886. In the year last named the deaths were in excess of the births in thirty-seven departments, while in the remainder the excess of births over deaths was 88,699. This comparative decline as regards the ratio of increase in the population of France, which would appear even greater but for the influx of foreigners, is largely due to the terrible losses of her bravest men, in their prime, in the unhappy wars in which she has been involved at intervals within the past hundred years.

OCCUPATIONS OF THE PEOPLE, LAND, AND PRODUCTS.—According to the last census the great bulk of the French people were engaged in agriculture, as many as 18,249,209 being employed in that occupation, as against 9,324,107 in mechanical industries, 3,843,447 in commerce, 1,585,358 in professions, 2,121,173 living on their incomes out of business, 737,088 without occupation, and 1,400,000 on public and private charity. Of the 18,249,209 connected with farming 2,425,500 are proprietors, representing with their families, *employés*, and domestics, over 9,000,000. Tenant farmers and other heads of farming establishments

represent, with their *employés*, domestics, and families, over 5,000,000 more; 3,500,000 constitute small proprietors working for others, including those dependent on them; and foresters form another 500,000. The cultivatable land of France consists of 5,550,000 distinct properties, 5,000,000 of which are under six acres each, 500,000 averaging 60 acres, and 50,000 averaging 600 acres. When a survey was made some years ago, 36,665,063 acres of the cultivated portion were under cereal crops, and in 1885 the crops yielded 716,249,803 bushels. The leading crops are wheat and oats, occupying five-sevenths of the cereal area. In 1885 the wheat produced was 302,120,120 bushels; in 1886, 290,000,000 bushels; and in 1887, 322,000,000 bushels. In recent years, however, the imports of wheat have greatly exceeded the exports, the principal cereal exports being rye and buckwheat. Vine culture is still seriously affected by the phylloxera, and the tendency is for the area devoted to vineyards and the quantity of wine obtained from them to diminish. The amount of land occupied by the vine in 1886 was 4,869,067 acres, which in 1887 was reduced to 4,800,000 acres. The wine yield of 1886 was 692,584,728 gallons, being an increase of about 65,500,000 gallons on the previous year, but this was more than 176,000,000 gallons under the average of the last ten years. In 1887 the total production dropped to 536,000,000 gallons. The necessity consequently arose in the latter year to import 232,800,000 gallons, only 48,114,000 gallons being exported, a quantity about one and a half times greater than the present average of a good vintage in California. The manufacture of cider varies considerably in amount. In 1885 the production amounted to 439,209,550 gallons, being an increase of over 177,000,000 gallons on the previous year, and 160,000,000 on the average of the preceding ten years. In 1886 the production reached 182,622,000 gallons, but in 1887 it rose to 295,606,000 gallons. In 1885, 478,306 acres were under sugar-beet, and 744,759 acres for cattle-feed and other purposes.

MINERAL AND METALLIC RESOURCES AND GENERAL MANUFACTURES.—The mineral resources of the country, although considerable, do not afford by any means sufficient coal and iron for the requirements of its home consumption. Between 1883 and 1886 the coal production (anthracite and lignite) ranged from more than 20,000,000 to upwards of 21,000,000 tons. The number of coal mines in the latter year was 308, employing 111,317 persons. Of pig iron the production in 1883 was 2,069,430 tons, against 308,170 tons imported; in 1884 1,855,247 tons, compared with 318,481 tons imported; in 1885 the production was 1,628,940 tons, and in 1886, 1,507,850 tons. The production of wrought iron was 978,917 tons in 1883, 877,826 in 1884, 782,431 in 1885, and 767,214 in 1886. A total of 466,913 tons of steel was produced in 1886, which was less than had been manufactured for some years previously. Metals and machinery are imported to the extent of three times the quantity exported. The entire mineral products of France in 1883, including salt, is estimated at 309,481,000 francs, the total value of the metallurgical production of the country being 521,000,000 francs.

In the list of other manufactures the production and refining of sugar takes a high rank in point of commercial value. Native sugar produced in a recent year was valued at 222,766,806 francs, the yield of sugar refineries in addition being 354,935,700 francs. The importation of cane sugar into France amounted to 108,615,000 kilogrammes in 1883, 210,785,163 in 1885, and 154,994,874 in 1886. The value of the spirits distilled in the same period was 2,010,946 francs; of ceramic and glass industries, 190,250,000 francs; of paper, 120,211,000 francs; of candles, 68,902,000 francs; and of soaps, 115,273,000 francs. There were in 1883, when the last available returns were published, 1082 cotton factories, employing 109,151 people, with 4,826,768 spindles, 73,665 power looms, and 37,515 hand looms; 2020 woollen factories, employing 112,782 persons, with 2,885,012 spindles, 43,253 power looms, and 37,620 hand looms; 600 linen, hemp and jute factories, with 65,747 workers, 625,124 spindles, 17,648 power looms, and 25,269 hand looms; 1424 raw silk factories, with 46,282 workers and 1,606,355 spindles; 1245 factories for silk and mixed textures, with 67,250 workers, 860,044 spindles, 34,321 power looms, and 60,083 hand looms. Since the outbreak of disease in the silk-worm in 1881, the annual production of cocoons has greatly diminished. The total value of French fisheries in 1885, including deep-sea fisheries, was £3,709,463, compared with £4,289,090 in 1884. The number of men engaged in the fisheries are 85,915, and the number of vessels 23,877, of 160,299 tons.

COMMERCE.—The total exports of France for 1886 amounted to £129,731,000, and the imports to £168,324,000. The export running into the largest value was woollen manufactures, after which rank wines and spirits, and next in the following order, according to value, silk, leather and leather goods, jewellery, watches and articles de Paris, raw silk and uncarded wool, cotton textiles, butter and eggs, millinery and artificial flowers, &c. Among imports, wines head the list, following upon which are raw wool, raw silk, oils and oil seeds, cereals, textiles and yarn, skins and hides, wood and timber, cotton, coal, minerals and metals, and coffee. Since 1883 the annual value of cereals, both imported and exported, has materially diminished, and while the export of wine has increased, the import of the same article since 1884 has risen in a still greater ratio.

The foreign country with which France carries on the largest amount of trade is the United Kingdom. At the same time it is noteworthy that the tendency of the import

trade from France into England has been to recede from 1877 to 1886, and the same remark applies to the import trade from England into France since 1883. The total quantity of wine exported from France to Great Britain in 1886 was 5,212,698 gallons, being 36 per cent. of the total quantity of that article imported into the United Kingdom.

COLONIAL POSSESSIONS.—Like the United Kingdom, though to a much smaller extent, France derives territorial prestige, combined with commercial profit, from her outlying dependencies, which are dispersed over Asia, Africa, America, and Polynesia, inclusive of countries under her "protection;" the collective area of these possessions being 963,000 square miles, and their population nearly 31,000,000.

REVENUE AND EXPENDITURE.—The budget of 1888, as presented in February, 1887, makes the total revenue for the former year 3,810,984,514 francs, and the total expenditure 3,810,506,069 francs. About one-third of the direct taxation is borne by land, one-seventh by buildings, one-sixth is levied on personal property, and the remainder on doors, windows, and licenses. The vastly increased expenditure of recent years was covered chiefly by the imposition of new indirect taxes. Foremost among these are greatly increased customs duties, stamps, and taxes on sugar, wines, salt, and transport by railway. The fact is unparalleled in the history of European states that the budget has nearly doubled since 1869. The deficits, which have occurred from a period anterior to 1814 down to 1886, amount to 1,338,640,198 francs. According to the budgets, the French public debt has reached nearly £1,034,000,000. Besides the debt bearing interest, however, other state obligations increase the nominal amount to £1,380,000,000. There are finally four milliards of francs of "local debts" contracted by the departments and communes, so that the aggregate public debt of France really amounts to the enormous sum of £1,440,000,000. The total consolidated debt of France, as shown in the budget of 1888, amounted, by capitalising the *rente*, to over £949,000,000. In 1884 M. Tirard calculated the engagements of the Treasury, the redemption of which was obligatory at a date not later than 1960, at a total of 35,874,736,554 francs, being equal to £38 per head of the population. An official investigation of the value of the landed property of France in 1883 showed its value to be £3,535,104,000; and if the value of the buildings be added, the total would probably be about £5,300,000,000, or about £140 per head. The rental of national property is £100,000,000. The total national income from all sources in 1883 was unofficially estimated at £940,000,000, which is equal to the capital of the entire funded debt of France. The amount deposited in the National Savings Bank was 112,928,491 francs, by 692,582 depositors. It may be mentioned, in conclusion, that, taking into account the various classes of reserves, the national war force of France amounts to 2,500,000 men at her disposal; and including the various able-bodied men whose services have been dispensed with, the total reaches 3,750,000.

This Catalogue is Printed with

FRENCH EXHIBITS.

[All Exhibits under Section I. are transferred to the Fine Arts Section of the Catalogue, where they will be found under heading "FRANCE."]

II.

Education and Instruction—Apparatus and Processes of the Liberal Arts.

- Class 6.—Education of Children, Primary Instruction, Instruction of Adults.**
- PART I.—CENTRAL ADMINISTRATION.
- 1 Ministry of Public Instruction, 110 Rue de Grenelle, Paris.—Collection of laws, regulations, statistics, &c., relating to public instruction.
 - 2 Musée Pedagogique, 41 Rue Gay Lussac, Paris.—Notice on the museum, photographs of its collections, circulating library, publications, &c.
- PART II.—EDUCATION AND TEACHING SOCIETIES.
- 3 Association Generale des Etudiants des Facultes et Ecoles Supérieures de Paris, Paris.—Bulletins and statutes.
 - 4 Association Philotechnique, 24 Rue Serpente, Paris.—Collection of the "Bulletins" of the association since 1880.
 - 5 Association Polytechnique, 28 Rue Serpente, Paris.—Reports of the distribution of prizes to scholars; annuals, &c.
 - 6 Ligue de l'Enseignement (Paris office), 14 Rue Jean Jacques Rousseau, Paris.—Descriptive notice and general documents.
 - 7 L'Union Française de la Jeunesse, 157 Boul. St. Germain, Paris.—Primary, higher primary, professional, and technical instruction, &c.
 - 8 Matinées Littéraires, for children of communal schools of Paris and Department of Seine, 1 Rue Meyerbeer, Paris.—Notes and programmes.
 - 9 Œuvre Tournasse, A. P., 8 Rue Montpensier, Pau.—Documents relating to the work of the late M. Tournasse in spreading popular education.
 - 9a Pas de Calais, Primary Schools of the Department of Schools.
 - 10 Société de l'Orphelinat de la Seine, 48 Rue St. Lazare, Paris.—Documents, plans, and descriptive notice.
 - 11 Société des Crèches, 27 Rue de Londres, Paris.—Four views of the St. Pierre du Gros-Caillou Crèche, &c.; pamphlets and notice.
 - 12 Société des Ecoles Enfantines, 175 Rue St. Honore, Paris.—Documents, pamphlets on the Frébel and Pestalozzi systems, series of toys, &c.
 - 13 Société des Fêtes d'Enfants, 8 Rue des Stes. Maries, Nîmes.—Papers and programmes of children's fêtes.
 - 14 Société des Livres Religieux de Toulouse, 7 Rue La Romiguière, Paris.—Historical and educational works intended as school prizes.
 - 15 Société des Musées Cantonaux.—President, M. E. Grout, Lisieux. Documents, typical catalogues of cantonal museums.
 - 16 Société Elisa Lemonnier pour l'Enseignement Professionnel des Femmes, 3 Rue de Douai, Paris.—Notes and documents.

- 17 Société Franklin pour la Propagation des Bibliothèques Populaires, 1 Rue Christine, Paris.—Reports, catalogues, &c.
- 18 Société Générale de Protection pour l'Enfance Abandonnée ou Coupable, 47 Rue de Lille, Paris.—Regulations and reports, &c.
- 19 Société Générale des Prisons, 26 Place du Marché Saint Honoré, Paris.—Complete collection of decennial table of "Bulletin" (1877-1886).
- 20 Société pour l'Encouragement de l'Instruction Primaire parmi les Proletaires de France, Paris.—Documents & maps.
- 21 Société pour l'Instruction Elementaire, 14 Rue du Fouarre, Paris.—"Journal d'Education Populaire," scholars' work, &c.
- PART III.—SCHOOL ARCHITECTURE, HYGIENE, FURNITURE, AND SCHOOL DECORATION.
- 22 Andre, H. Daly fils et Cie, Editors, 51 Rue des Ecoles, Paris.—Engraved plans of buildings for public instruction.
 - 23 Armengaud, Sén., Engineer, 45 Rue St. Sébastien, Paris.—Wall pictures for class-rooms, instructive and decorative.
 - 24 Bouvard, —, Government Architect, Paris.—Plans of the National Elementary, Superior, and Professional School of Voiron.
 - 24a Braun Ad., photographer, Avenue de l'Opera, Paris.—Photographs of paintings by old and modern masters, for school art magazines.
 - 25 De Baudot, H. A., Government Architect, 3 Place de Rennes, Paris.—Plan of the Lakanal Lyceum at Sceaux, near Paris.
 - 26 Delvaille et Breney, Drs., Bayonne.—Documents on hygiene and medical inspection in the schools of Bayonne.
 - 27 Dupont, P., Editor, 44 Rue Jean Jacques Rousseau, Paris.—School library bookcase, school furniture, educational books, &c.
 - 28 Frete et Cie, 12 Boul. de Sébastopol, Paris.—Gymnastic apparatus granted to elementary and normal schools by Education Department.
 - 29 Geneste Herscher et Cie, 42 Rue du Cheminvert, Paris.—Plans and drawings illustrating the methods for warming and ventilating schools.
 - 30 Guillaumet, A. A., père, Engraver, 14 Marly-le-Roi, Rue Madame.—Etching of "La Prise de la Bastille," for decoration of schools, &c.
 - 31 Hachette et Cie, publishers, 79 Boul. St. Germain, Paris.—Specimens of school apparatus and rewards; Saffray museum, with catalogue.
 - 32 Lacroix, D., 110 Rue de Grenelle, Paris.—"Le Panthéon des Enfants," wall picture for school decoration.
 - 33 Lambert, M., Government Architect, 8 Place du Havre, Paris.—Six specimen plans of primary school buildings constructed since 1880.

Sole Agents for Colonies : PFAFF, PINSCHOF & Co., Melbourne.

- 34 Layet, Dr.,** 42 Rue du Palais de Justice, Bordeaux.—Documents on school hygiene and medical inspection of schools at Bordeaux.
- 35 Lecoeur, Government Architect,** 128 Rue de Grenelle, Paris.—Plans of lycéums.
- 36 Lecoq, Paris.**—Adjustable drawing table and drawing class-room seats.
- 37 Le Perdriel et Cie,** 11 Rue Milton, Paris.—Medicine chest containing medicines and apparatus for the use of colleges and schools.
- 38 Maison Quantinat,** 7 Rue St. Benoît, Paris.—Plaster models for museums and school decoration.
- 39 Mangenot, Dr.,** 55 Avenue d'Italie, Paris.—Medical and hygienic inspection in schools in France and abroad.
- 40 Ministry of Public Instruction and Fine Arts.**—Reports of commissions regarding hygiene, architecture, decoration of schools, &c.
- 41 Napias et Martin, Drs.**—L'Etude et les progrès de l'hygiène en France de 1878 à 1882, Paris 1883.
- 42 Narjoux, F.** Architect to the Government and to the City of Paris, 3 Rue Littré, Paris.—Works on school architecture, 12 vols., illustrations.
- 43 Nicolas et Marcotte, architects,** Caen, Calvados.—Plans of the Normal Training School at Caen, six large panels.
- 44 Orphelinat Prevost.**—Plans of the orphanage and of studios constructed by the scholars.
- 45 Picard, A., et Kaan, Editors,** 11 Rue Soufflot, Paris.—Works on school hygiene and gymnastics; school reward cards.
- 46 Pierre-Petit, Photographer to the Ministry of Public Instruction,** 31 Place Cadet, Paris.—Views of establishments for public instruction.
- 47 Ravaission, F.,** Inspector-General of Public Instruction, Paris.—Copies of the masterpieces of art for art school museums.
- 48 Regnard, Dr., et Johnson, H.**—Anatomical and physiological drawings for hanging on walls of class-rooms and lecture-rooms.
- 49 Reiber, E.,** Architect, 34 Rue Vavin, Paris.—School decoration—three panels showing how teachers and scholars might decorate class-rooms.
- 50 Suzanne, Editor, Geographer, Manufacturer of School Apparatus,** 5 Rue Malebranche, Paris.—School decoration.
- 51 Trelat, E.,** Director of the Special School of Architecture, Boul. Montparnasse, Paris.—School hygiene, documents, and plans.
- 52 Vaudremer, Member of the Institute of France.**—Plans of lycéums; the Lyceum of Grenoble, and the Lyceum for Girls at Montauban, &c.
- PART IV.—EDUCATION AND INSTRUCTION, APPARATUS FOR AND METHODS AND RESULTS OF TEACHING.**
- 1.—INFANT SCHOOLS.
- 53 Armentières, Ecole Nationale Professionnelle d'.**—Work done in infant school connected with the Ecole Nationale Professionnelle.
- 54 Auzende, Place St. Augustin, Paris.**—Models of music writing.
- 55 Carue, Manufacturer,** 289 Rue Saint Denis, Paris.—Gymnastic apparatus for infant schools.
- 56 Collin, Mdlle. L.** Music Teacher at the Normal School of Fontenay aux Roses.—System of teaching chorus-singing to children.
- 57 Cours Normal d'Institutrices des Ecoles Maternelles,** 181 Boul. du Mont Parnasse, Paris.—Works of pupil teachers.
- 58 Delagrave (Ch),** Publisher, 15 Rue Soufflot, Paris.—Apparatus for infant schools.
- 59 Hachette et Cie.,** Publishers, 79 Boul. St. Germain, Paris.—Apparatus, pictures, maps, &c., for infant schools.
- 60 Isere, Ecoles Maternelles du Département de l'**; Mdme. Bouchet, Inspector.—Specimens of children's work.
- 61 Lietout, Mdme.,** 18 Rue de Poissy, Paris.—Instructive games for infants.
- 62 Ministry of Public Instruction.**—Documents relating to infant schools, daily copy books used in infant schools.
- 63 Société des Ecoles Infantines;** chief office, 17 Rue St. Honoré, Paris.—Reports, documents, and works of scholars.
- 64 Vierzon (Cher), Ecole Maternelle annexée à l'Ecole Nationale Professionnelle de.**—Specimens of children's work.
- 65 Ville de Paris.**—Documents and specimens of the work produced in the Infant Schools of Paris.
- 66 Villefranche de Rouergue (Aveyron), Ecole Maternelles de.**—Specimens of children's work.

2.—PRIMARY ELEMENTARY SCHOOLS.

- 67 Armentières (Nord), Ecole Primaire d'.**—Exhibit sent from the National Professional School.
- 68 Bertaux, E.,** Publisher, 25 Rue Serpente, Paris.—Globes, maps, atlases, &c.
- 69 Bordeaux, Ecoles de.**—Scholars' written exercises and hand-work.
- 70 Bougueret, —,** Paris.—Specimens of drawings executed by pupils for a competitive design.
- 71 Cocheris, Mdme. Pauline,** Boul. St. Marcel, Paris.—Method of instruction in needlework.
- 72 Colin, A., 1, 3, 5 Rue Mèrées, Paris.**—Wall maps and school apparatus.
- 73 Delagrave, C., 15 Rue Soufflot, Paris.**—Material for teaching geography, object lessons, and drawing.
- 73a Deyrolle, E., 46 Rue du Bac, Paris.**—Several series of wall charts for object lessons.
- 74 Dijon, Ecoles Primaires Communales de.**—Specimens of scholars' work, drawings, maps, school exercises.
- 75 Gaultier, F., 55 Quai des Grands Augustins, Paris.**—Wall maps and tables for elementary instruction.
- 76 Hachette et Cie., 79 Boul. St. Germain, Paris.**—Teaching material, wall maps, globes, set of school tools, school museum (by Safray), &c.
- 77 Lamuguiere, 40 Rue Vaneau, Paris.**—Plan in relief of environs of Paris for teaching local geography in elementary schools.
- 78 Larousse, Vve., et Cie., 49 Rue St. André des Arts, Paris.**—Requisites for handwork instruction, school books, and pictures.
- 79 Lebegue, J., et Cie., 28 Rue de Lille, Paris.**—Globes.
- 80 Levasseur, E., de l'Institut, Paris.**—Wall maps: physical and political Europe, France and her colonies.
- 81 Marans (Charente-Inferieure), Ecole Communale de Garçons de.**—Primary schoolboys' copybooks, drawings, maps, &c.
- 82 Marne (Département de la), Académie de Paris.**—Specimens of scholars' works.
- 83 Masson, G., Editeur,** 129 Boul. St. Germain, Paris.—Demonstrative pictures of natural history, by Gervais.
- 84 Ministry of Public Instruction, Paris.**—Documents relating to elementary teaching, teaching apparatus, geography, metric system, &c.
- 85 Reiber, E.,** Architect, 34 Rue Vavin, Paris.—System of teaching drawing as handwriting.

- 86 Sanard et Dorangeon, Successeurs de Ch. Bazin et Cie., Publishers, Paris.—Apparatus for instruction in drawing, &c.
- 86a Scheer, Inspector of Schools, Algeria.—Documents of Franco-Arab schools, Algeria.
- 87 Societe Centrale de Produits Chimiques, 44 Rue des Ecoles, Paris.—Apparatus for experiments in physics and chemistry.
- 88 Tarbes, Ecole Annexe de l'Ecole Normale d'Institutrices de.—Specimens of scholars' work.
- 89 Vierzon (Cher.), Ecole Primaire de Garcons Annexe a l'Ecole Nationale Professionnelle de.—Scholars' work.
- 3.—PRIMARY, SUPERIOR, AND PROFESSIONAL SCHOOLS.
SCHOOLS OF HANDWORK APPRENTICESHIP.
- 90 Armentieres (Nord), Ecole Nationale d'Enseignement Primaire Superieur et Professionnel d'.—Pupils' work.
- 90a Bordeaux, Higher Primary Schools of.—Pupils' work.
- 91 Boulogne sur Mer, Pas de Calais, Ecole Primaire Supérieure de Garcons de.—Copybooks.
- 92 Dijon, Ecole Primaire Supérieure de.—Scholars' written work, maps, drawings, etc.
- 93 Grenoble, Ecole Primaire Supérieure de Filles de, conducted by Mlle. Garnier.—An album containing specimens of sewing.
- 94 Havre, Ecole Primaire Supérieure et d'Apprentissage de Jeunes Filles du (director, Mlle. Vignerion).—Scholars' work.
- 95 Lambrechts, A., à Courbevoie, Seine (Director, M. O. Gaufré).—Plans, documents, specimens of scholars' work.
- 95a Marseilles, Higher Primary School of.—Scholars' needlework and millinery.
- 96 Melun, Ecole Primaire Supérieure et Professionnelle de Filles de, Mdlme. Valet, Director.—Specimen of scholars' work.
- 97 Ministry of Public Instruction.—Various documents, statistics on the subject.
- 98 Orphelinat Prevost (Director, M. Robin), Cenpus, Oise.—Attempts of co-education; specimens of written and hand work by children.
- 99 Rouen, Ecole Professionnelle et Manufacture de Filles de (Director, Mdlme. Lasserre).—Specimens of sewing and cutting out by scholars.
- 100 Schefer, Mdlme. A.—Manual and books on domestic economy.
- 101 Vierzon (Cher.), Ecole Nationale d'Enseignement.—Photographs of the building, specimens of scholars' work.
- 102 Voiron (Isere), Ecole Nationale d'Enseignement.—Photographs of buildings, specimens of pupils' work.
- 4.—NORMAL SCHOOLS.
- 103 Alvergnat Freres, 10 Rue de la Sorbonne, Paris.—Mathematical and physical instruments for normal schools and lyceums.
- 104 Auteuil (Seine), Ecole Normale d'Instituteurs d' (Director, M. Lenient).—Views of buildings, specimens of scholars' work.
- 105 Auzou (Veuve) et Montaudon, Rue de Vaugirard, Paris.—Specimens of anatomical models for scientific teaching in normal schools.
- 106 Caen, Ecole Normale d'Instituteurs de.—Plans and elevation (Nicolas et Marcotte, Architects).
- 107 Chartres, Ecole Normale d'Institutrices de.—Specimens of pupils' work.
- 108 Deyrolle, E., 43 Rue du Bac, Paris.—Pictures and models of objects, for teaching natural history in normal schools.
- 108a Dijon, Normal School of.—Students' work; manual work from Model School attached to the Training College.
- 109 Ducretet, E., et Cie., 75 Rue Claude Bernard, Paris.—Instruments for teaching physics in normal schools, lyceums, universities, &c.
- 110 Lemercier, Mdme. Veuve, 7 Rue Vavin, Paris.—Anatomical structure, capable of being taken to pieces, for demonstration and teaching.
- 111 Levy, J., 113 Boul. Sébastopol, Paris.—Photographs on glass for dissolving views intended for instruction.
- 112 Lutz, E., 82 Boul. St. Germain, Paris.—Set of optical and physical apparatus adopted by Education Department for normal schools.
- 113 Ministry of Public Instruction.—Collective exhibition of drawings from different normal schools.
- 114 Molteni, 44 Rue du Château d'Eau, Paris.—Instruments for assisting in teaching physics in normal schools.
- 115 Picart, A., 20 Rue Mayet, Paris.—Instruments for teaching physics in normal schools, and for scientific research; spectroscopes, microscopes, etc.
- 116 Quantin, A., 7 Rue St. Benoit, Paris.—Plaster casts and other drawing models for normal schools, lyceums, &c.
- 117 Rousseau, P., 17 Rue Soufflot, Paris.—Apparatus for chemical laboratory, mathematical instruments.
- 118 Societe Centrale de Produits Chimiques, 44 Rue des Ecoles, Paris (Director, E. Plasto).—Instruments, materials, and products.
- 119 Tarbes, Hautes Pyrenees, Academie de Toulouse, Ecole Normale Primaire de filles de.—Specimens of scholars' work.
- 120 Toulouse, Ecole Normale d'Institutrices de.—Specimens of pupils' work.
- 121 Valence (Drome), Ecole Normale de.—Plans and elevation.
- 122 Versailles, Ecole Normale d'Instituteurs de.—Specimens of students' work.
- 5.—MEANS FOR THE IMPROVEMENT OF TEACHERS' EDUCATION.
- 123 Hachette et Cie., 79 Boul. St. Germain, Paris.—Scholastic periodical publications, Pedagogical Dictionary by F. Buisson, &c.
- 124 Ministry of Public Instruction.—Documents relating to teachers' circles and meetings, &c.
- 6.—INSTRUCTION OF ADULTS.
- 125 Association Philotechnique.—Documents on the society's work.
- 126 Association Polytechnique.—Documents.
- 127 Groult, Edmond, Lisieux, Calvados.—Documents on the organisation of local museums of technology, archaeology, &c.
- 128 Ministry of Public Instruction.—Documents, reports, statistics on the subject.
- 129 Societe Pour l'Enseignement Elementaire.—Documents on the works of the society.
- 130 Union Francaise de la Jeunesse.—Documents.

7.—SECONDARY INSTRUCTION.

A.—State Establishments.

131 **Cerf**, L., 15 Rue Médicis, Paris.—"L'Enseignement Secondaire des Jeunes Filles," monthly review relative to girls' high schools.

132 **Colin**, A., 1, 3 and 5 Rue de Mezières, Paris.—Works of secondary instruction and "Bulletin Scientifique de l'Enseignement Secondaire."

133 **Delalain Frères**, 56 Rue des Ecoles, Paris.—Annual competitions at the Sorbonne between best pupils of all lycées, from 1870 to 1877, etc.

134 **Ducretet**, E., et Cie., 75 Rue Claude Bernard, Paris.—Apparatus and instruments for teaching physical science in secondary schools.

135 **Ecole Nationale des Arts et Métiers**.—Specimens of pupils' work exhibited by the Direction of Technical Instruction.

136 **Ministry of Public Instruction**.—Documents on secondary education, classical and special.

137 **Narjoux**, F., Architect, 3 Rue de Lille, Paris.—Plans of lycées and other establishments for secondary instruction.

138 **See, Camille**, Counsellor of State, Paris.—Documents on girls' high schools, "lycées de jeunes filles."

B.—Independent Establishments.

139 **Ecole Alsacienne**, 109 Rue Notre Dame les Champs, Paris.—Photographs of the school, programmes, reports, specimens scholars' work.

8.—SUPERIOR INSTRUCTION.

140 **Association Générale des Étudiants des Facultés et des Ecoles Supérieures de Paris**, 41 Rue des Ecoles.—Bulletin & statutes.

141 **Croville-Morant**, 20 Rue de la Sorbonne, Paris.—L'Indicateur des Cours Publics de Paris, B.A. and other degrees, examination papers.

142 **Delalain Frères**, Publishers, 56 Rue de Ecoles, Paris.—Programmes of admission to Government schools; programmes of examination for degrees.

143 **Gayet**, A., Member of the French School of Archaeology at Cairo.—Catalogue of Coptic sculptures in the Boulaq Museum, etc.

144 **Ministry of Public Instruction**.—Reports, statistics, regulations, documents regarding superior instruction in Universities; photographs, etc.

145 **Narjoux**, F., Paris Law School Library.—Plan of the ground floor, general elevation, section, interior view, details.

146 **Rousselot**, L.—"Nos Grandes Ecoles," containing notes on polytechnic, central, normal, superior fine arts, medical, law and forestry schools.

9.—INSTRUCTION IN FINE ARTS.

147 **Cernesson**, L. C., 28 Rue Michel Ange, Paris.—Elementary Grammar of Design, in wall charts and book form.

148 **Charvet-Pillet**.—Large wall models and apparatus for teaching drawing.

149 **Havre, Ecole des Beaux Arts du**.—Photographs, exterior and interior views of the studios.

150 **Ministry of Public Instruction and Fine Arts**.—Models adopted by the Direction of Fine Arts for teaching drawing in Govt. schools, &c.

151 **Monrocq Frères**, 3 Rue Suger, Paris.—Methods, models and copies for teaching drawing.

151a **Pecaut**, E., et **Baude**, C.—"L'Art," easy conversation for use in schools (Larousse et Cie., publishers).

152 **Quantin (Maison), Compagnie Générale d'Imprimerie et d'édition**, 7 Rue St. Benoit, Paris.—Plaster casts and other models.

10.—CITY OF PARIS.

153 **Special Exhibition**, showing the apparatus methods, and results of primary and superior primary instruction, the courses of instruction for adults, and curriculum followed in advanced schools for boys and girls.

11.—INSTRUCTIVE AND SCIENTIFIC PUBLICATIONS.

154 **Alcan**, F., 103 Boul. St. Germain, Paris.—Collection of periodicals referring to superior instruction.

154a **Andre**, H., Daly Fils et Cie., 51 Rue des Ecoles, Paris.—Books of instruction in drawing for the use of schools, &c.

155 **Baschet**, L., Librairie d'Art, 125 Boul. St. Germain, Paris.—Illustrated instructive books.

156 **Baudran**, E., 26 Rue de Fleurus, Paris.—Synoptical tables of bookkeeping.

157 **Belin et ses Fils, veuve E.**, 52 Rue de Vaugirard, Paris.—Works on education and text-books.

158 **Berger-Leverault**, 5 Rue des Beaux-Arts, Paris.—Official and military publications, books for school prizes, books of education & instruction.

159 **Caligny, Le Marquis de**, Versailles.—Scientific works, hydrostatics.

160 **Chameroit**, 19 Rue des Saints-Pères, Paris.—Classical books and impressions de luxe, etc.; the Larive and Fleury dictionary.

161 **Chassels**, E.—New method for teaching the English and German languages.

162 **Colin**, A., 1, 3, 5 Rue de Mezières, Paris.—Text-books for primary and secondary teaching, grammars, dictionaries, atlases, maps.

163 **Delalain, Frères**, 56 Rue des Ecoles, Paris.—Annual of Public Instruction, "Annales des Concours Généraux"—1870 to 1887, text-books, &c.

164 **Ducrocq**, 55 Rue de Seine, Paris.—Books, maps, syllabuses, and methods of teaching children; illustrated works for school prizes.

165 **Dupont**, P., 41 Rue Jean Jacques Rousseau, Paris.—Text-books for primary instruction.

166 **Durand (Ch.)**.—Geology of the Vosges applied to Agriculture, 1 vol., with plates and illustrations.

167 **Engel**, M., 91 Rue du Chêne Midi, Paris.—L'Herbier des Ecoles; school herbarium, with drawings of plants.

168 **Firmin-Didot et Cie.**, 56 Rue Jacob, Paris.—Text-books, classical editions; translations from Greek and Latin authors; artistic publications.

169 **Garnier Frères**, 6 Rue des Saints-Pères Paris.—General works of education and public use, French classics and text-books for teaching.

170 **Gedalge**, 75 Rue des Saints-Pères, Paris.—Classical works, elementary, primary, and superior; methods of manual work for boys and girls.

171 **Goepp**, H.—Les Grands Hommes de France, 9 vols., with maps and portraits.

172 **Guerin**, G., et Cie., 22 Rue des Boulangeries, Paris.—Teaching apparatus and works; methods of drawing, music, geography; books for prizes.

173 **Hachette et Cie.**, 179 Boul. St. Germain Paris.—Works on education; classics, text-books Buisson's "Dictionnaire de Pédagogie," etc.

- 174 **Hennuyer, A.**, 47 Rue Laffitte, Paris.—Books of instruction in music, educational works; "Le Magasin des Demoiselles," periodical, 44th year.
- 175 **Hetzell, J.**, 18 Rue Jacob, Paris.—Educational, recreative, popular books; "Le Magasin Illustré d'Education," periodical, 46 vols.
- 176 **Jeande, publisher**, 19 Rue Cassette, Paris.—Books of instruction for young children, globes and maps.
- 177 **Jost, G.**, Inspector-General of Public Instruction, "Annuaire de l'Enseignement Primaire, 1885-1889."—"Lectures Pratique," graduated readers.
- 178 **Jouvet et Cie.**, 5 Rue Palatine, Paris.—Books on history, geography, literature, popular science, education, and teaching.
- 179 **Lahure**, 9 Rue de Fleurus, Paris.—Works for teaching and prize books, editions of luxe, "Paris Illustré," periodicals with illustrations in colours.
- 180 **Lanee**, 8 Rue de la Parix, Paris.—Maps and geographical atlases; "Planisphere Chatelain," showing means of communication by sea and land.
- 181 **Larousse (Veuve) et Cie.**, 149 Rue St. André des Arts, Paris.—Instructive works and pictures and school prizes.
- 182 **Lecene et Oudin**, 17 Rue Bonaparte, Paris.—Works on education and instruction, classical books, books for prizes.
- 183 **Leduc, A.**, 33 Rue de Grammont, Paris.—Books and publications for teaching music; "Solfège," by Muller, Pitarch, etc.
- 184 **Lemerre, A.**, 27, 29, 81 Passage Choiseul, Paris.—Books adopted by the Council of Public Instruction for school libraries, modern French poets.
- 185 **Masson, G.**, 120 Boul. St. Germain, Paris.—Books of instruction in natural science; "La Nature," scientific monthly, etc.
- 186 **Ministry of Public Instruction**.—Laws, regulations, statistics, and various documents.
- 187 **Ministry of War** (geographical service of the army), Paris.—Specimens of three kinds of survey maps, edited by the War Office.
- 188 **Musée Pédagogique**, 41 Rue Gay-Lussac, Paris.—Periodicals, memoirs, and scholastic documents published by the Musée Pédagogique.
- 189 **Ollendorff, P.**, 28 bis, Rue de Richelieu, Paris.—Books of instruction, "Methode-Ollendorff" for the study of foreign languages.
- 190 **Orphelinat Prevost**.—Publications on teaching applied sciences, shorthand, plastic arts, vocal and instrumental music, etc.
- 191 **Pey, A.**, teacher at the Lycee St. Louis, Paris.—"Les Langues Vivantes Enseignées par les Images," children's course in the German language.
- 192 **Picard et Kaan**, 11 Rue Sufflot, Paris.—Books and maps for elementary teaching, scholastic works.
- 193 **Pigier**, Director of l'Ecole Pratique de Commerce et de la Comptabilité, Paris.—"Nouvelle tenue des Livres," etc.; system of bookkeeping.
- 194 **Plon, E., Nourrit, et Cie.**, 18, 20 Rue Garancière, Paris.—Works on teaching, prize books, literary and historical works, etc.
- 195 **Quantin Maison**, 7 Rue Saint Benoit, Paris.—Publications regarding the teaching of drawing and art; series of art hand-books, by J. Comte.
- 196 **Roret**, 12 Rue Hauteville, Paris.—Collection of the Manuels-Roret, forming an encyclopædia of the sciences and arts, comprising nearly 400 vols.
- 197 **Rothschild, F.**, 13 Rue des Saints Péres, Paris.—Books on teaching, books for prizes, works on science and art.
- 198 **Schmit, H.**, official at the Ministry of Public Instruction.—Two works on primary education acts and school organisation.
- 199 **See, C.**, Conseiller d'Etat—Lycées et Colleges de Jeunes Filles.—Documents, reports, speeches, decrees, circulars relative to high schools for girls.
- 200 **Societe de Geographie**, 184 Boul. St. Germain, Paris.—Bulletins and accounts of the society.
- 201 **Villemot, A.**.—"Etude sur l'Organisation, le Fonctionnement, et les Progrès de l'Enseignement Secondaire en France de 1879 à 1887."
- Class 9.—Printing, Books.
- 202 **Alcan, F.**, 108 Boul. St. Germain, Paris.—Works of science, medicine, philosophy, and history.
- 203 **Belin, E., et Son**, 52 Rue de Vaugirard, Paris.—Works of instruction, maps.
- 204 **Boussod, Valadon et Cie.**, 9 Rue Chaptal, Paris.—Etchings, photogravures, fac-similes of water-colours (engravings).
- 205 **Chamerot, G.**, 19 Rue des Sts. Péres, Paris.—Various works; "Impressions de luxe."
- 206 **Champenois et Cie.**, 66 Boul. St. Michel, Paris.—Choice coloured prints and etchings.
- 207 **Chardon, C.**, 10 Rue de l'Abbaye, Paris.—Engravings.
- 208 **Claesen, C.**, 30 Rue des Sts. Péres, Paris.—Publications relating to the practice of the industrial and decorative arts.
- 209 **Colin, A., et Cie.**, 5 Rue de Mezières, Paris.—Text-books; wall maps, in big type, by Vidal-Lablache.
- 210 **Delagrave, C.**, Rue Soufflot, Paris.—Classical books, school apparatus, drawing materials, and models.
- 211 **Delalain Freres**, Official Publishers of the University of France, 56 Rue des Ecoles, Paris.—Classical books.
- 212 **De Meens, J.**, 11 Rue Nouvelle, Paris.—Files of the "Moniteur Industriel," "Bulletin des Adjudications Officielles et Privées," etc.
- 213 **Doin, O.**, 8 Place de l'Odéon, Paris.—Works of medicine and the natural sciences.
- 214 **Dupont, P.**, Rue J. J. Rousseau, Paris.—Class-book and official works.
- 215 **Firmin, Didot et Cie.**, 56 Rue Jacob, Paris.—Illustrated works, printing in colours.
- 216 **Gauthier, Villars et Fils**, 55 Quai des Augustins, Paris.—Scientific books.
- 217 **Gedalge, J.**, 75 Rue des Sts. Péres, Paris.—Educational works.
- 218 **Gruel, L., Englemann, E.**, 418 Rue St. Honoré, Paris.—Various works.
- 219 **Hachette et Cie.**, 70 Boul. St. Germain, Paris.—Illustrated works, books of education and instruction.
- 220 **Hauteceur, J.**, 172 Rue de Rivoli, Paris.—Engravings, etchings, fac-similes of water-colours, photogravures.
- 221 **Hetzell, J., et Cie.**, 18 Rue Jacob, Paris.—Books on education and games, travels; various publications.
- 222 **Jouvet et Cie.**, 5 Rue Palatine, Paris.—Works of history, literature, popular science, geography, and travels.
- 223 **Lahure, Societe Anonyme d'Imprimerie**, 9 Rue de Fleurus, Paris.—Various publications, engravings.
- 224 **Larousse et Cie.**, 19 Rue du Montparnasse Paris.—Le Grand Dictionnaire du XIX. Siècle; large quarto cyclopedia, in 18 vols.; &c.
- 225 **Lorilleux, C., et Cie.**, 16 Rue Large, Paris.—Specimens of various styles of printing and lithography.

- 226 Ollendorff, P., 288 Rue de Richelieu, Paris.—Publications in foreign languages, novels, dramatic publications.
 227 Plon, E., Nourrit et Cie., 8 Rue Garancière, Paris.—Illustrated books.
 228 Portier, L., 12 Rue d'Aboukir, Paris.—“Le Guide de la Mode.”
 229 Quantin Maison Cie., Générale d'impressions et d'éditions, 7 Rue St. Benoit, Paris.—Prints in black and in colours on linen, engravings.
 230 Roret, 12 Rue Hautefeuille, Paris.—Miscellaneous publications.
 231 Societe des deux Revues, 111 Boul. St. Germain, Paris.—Files of the “Revue Bleue” and the “Revue Scientifique.”
 232 Testard, E., 10 Rue de Condé, Paris.—Victor Hugo's works and miscellaneous publications.
 233 Turgis (L.) et Fils, 60 Rue des Ecoles, Paris.—Prints, lithographs, pictures, engravings.

- Class 10.—Stationery, Bookbinding, Painting, and Drawing Materials.**
 234 Bardou, J., et Fils, Perpignan (Pyrenées Orientales).—Cigarette papers.
 235 Bardou, J. P., 18 Rue St. Sauveur, Perpignan.—Cigarette papers.
 236 Delagrave, Ch., publisher and stationer, 15 Rue Soufflet, Paris.—Stationery, writing, and drawing materials.
 237 Hachette et Cie, 79 Boul. St. Germain, Paris.—Stationery and drawing materials.
 238 Outhenin, Chalandre, Fils et Cie., Besançon (Doubs), a Savoyeuse and Leveux (Haute Savoie), 16 Rue N. D. de Victoires, Paris.—Papers.
 239 Poure, O'Kelly et Cie., Boulogne sur Mer (Pas de Calais).—Steel pens, pen-holders, pencils, lead pencils, pencil cases, gums, inkstands, &c.
 240 Quantin (Maison) et Cie, 7 Rue St. Benoit, Paris.—Drawing material and models.

- 241 Toiray-Maurin, C. G., 4 and 6 Rue des Haudiérettes, Paris.—Inks, gums, wax, sealing-wafers, blue wafers.

- Class 12.—Photographic Proofs and Apparatus.**
 242 Braun (Ad.), photographer of National Museums, Avenue de l'Opéra, Paris.—49 photographs from modern French school of paintings.
 243 Levy, J., 113 Boul. Sébastopol, Paris.—Stereoscopic views on glass, photographs.
 244 Pierre-Petit, Place Cadet, Paris.—Photographs of various school buildings, exterior and interior views.

Class 13.—Musical Instruments.

- 245 Bing, O., Rue Payen, Quai de Javel, Paris.—Harmonio cords for musical instruments.
 246 Evette et Schaeffer, 18 et 20 Passage du Grand Cerf, Paris.—Wind musical instruments.
 247 Francois, L., Maitre et Cie., 81 Rue St. Maur, Paris.—Brass and wood musical instruments.
 248 Pleyel, Wolff et Cie., 22 Rue Rochechouart, Paris.—Grand and upright pianofortes.

Class 14.—Mathematical and Philosophical Instruments.

- 249 Alverginat Frères, 10 Rue de la Sorbonne, Paris.—Physical instruments.
 250 Baille-Lemaire, 22 Rue Oberkampf, Paris.—Opera, field, and marine glasses.
 251 Crouzet, H., 13 Rue de Sambre et Meuse, Paris.—Bells (in the Lepautre Lighthouse).
 252 Ducretet, H., et Cie., 75 Rue Claude Bernard, Paris.—Instruments for scientific uses.
 253 Krauss, F., et Cie., 4 Avenue de la République, Paris.—Opera glasses.
 254 Lepautre, H., 6 Rue Lafayette, Paris.—Two-storey lighthouse of the sixth dimension.
 255 Lutz, E., 82 Boulevard, St. Germain, Paris.—Optical and other scientific instruments.

III.

Furniture and Accessories.

Class 16.—Furniture.

- 256 Boudet, H., 2 Rue Deterrine, Limoges, Hte. Vienne.—Porcelain.
 257 Boudinet, T., 5 Rue du Chateau d'Eau, Paris.—Furniture in basket work.
 258 Deschamps, A., 65 Rue Turenne, Paris.—Glasses and mirrors.
 259 Dienst, E., 86 Faubourg St. Antoine, Paris.—Furniture and carpets.
 260 Leger, A. E., 64 Rue Amelot, Paris.—Louis XIV. furniture.
 261 Lemoine, H. A., 17 Rue des Tournelles, Paris.—Drawing and diningroom furniture.
 262 Maechling, T. F., 24 Rue Keller, Paris.—Statuary mouldings, &c., for furnishing.
 263 Perol Frères, 30 Faubourg St. Antoine, Paris.—Drawingroom and diningroom furniture.
 264 Robois, G., 75 Faubourg St. Antoine, Paris.—Glass and mirrors.
 265 Soubrier, L., 14 Rue de Reuilly, Paris (collaborator, François Soubrier, Son Fils).—Drawing-room and study furniture.
 266 Vigues, G., Fils, 59 Rue du Faubourg St. Antoine, Paris.—Veneers.

Class 17.—Upholsterers' and Decorators' Work.

- 267 Grande Marbrerie de Bagnères de Bigorre, France.—Mantelpieces, columns, tiles, monuments, vases, &c., in Pyrénées marbles. Head office: Theodore Geruzet, Hamilton-st., Sydney.

Class 18.—Carpets, Tapestry, and other Stuffs for Furniture.

- 268 Blondet, L., 20 Rue du Sentier, Paris.—Stuffs for furniture, curtains, tablecloths.
 Agents: Schoch, Bruggmann and Co., 50 Flinders-lane E., Melbourne.
 269 Cocheteux, G., et Cie., 4 Rue d'Aboukir, Paris.—Furniture stuffs.
 270 Davoust, 25 Rue de la Tombe Issoire, Paris.—Floorcloths, tablecloths, leather covers, &c.
 270 Jaluzot, Grands Magasins du Printemps, Paris.—Curtains (in Fine Arts and Education Courts).
 271 Legrand Frères, 8 Rue St. Foy, Paris.—Printed stuffs, carpets, and furniture.
 272 Linoleum Cie. Française Ltd., 21 Boul. Haussmann, Paris.—Linoleum, carpets, and hangings.

Class 19.—Paperhangings.

- 273 Gillou et Fils, 7 Passage Charles Dallery, Paris.—Painted papers.
 Agents: Schoch, Bruggmann and Co., 50 Flinders-lane E., Melbourne.

Class 21.—Goldsmiths' and Silversmiths' Work.
274 Christofle et Cie., 56 Rue de Bondy, Paris.—Specimens of silversmiths' work.

Class 22.—Bronzes and Various Art Castings and Repoussé Work.

274a Bauche, G. H., 15 Rue Brûlée, Reims, Marne.—Strong boxes, paper baskets, small chests, &c.

Sole Agency for Victoria: Ostermeyer, Dewez and Co. Limited, 181 Collins-st. West, Melbourne.

275 Coutellier, El., 74 Boul. Richard Lenoir, Paris.—Zinc repoussé work (on the Lepaute Lighthouse).

276 Lamaille, G., et Cie., 5 Rue Béranger, Paris.—Imitation bronzes.

277 Machefer Fils, Fenquieres, Vimeau (Somme), and 20 Rue N. D. de Nazareth, Paris.—Padlocks and strong boxes.

277a Syndicat des Bronzes, 5 Rue Béranger, Paris.—Bronzes.

278 Thiriot, L., François Eleanor, 92 Rue Amelot, Paris.—Albums of statues, ornamental castings.

Class 23.—Clocks and Watches.

279 Antoine Frères, 28 Rue Charles Nodier, Besançon, Doubs.—Watches and chronometers.

279a Buhier et Cie., 43 Rue Meslay, Paris.—Clocks and watches.

280 Champion, E., 23 Rue des Bons Enfants, Paris.—Clock decorations, watches, travelling clocks.

281 Diette Fils and Hour, 7 Rue St. Anastase, Paris.—Clocks of all kinds, alarms.

282 Lepaute, H., 6 Rue Lafayette, Paris.—Clock with musical bells.

283 Noel et Phillippe, 130 Rue Amelot, Paris.—Marble clocks.

Class 24.—Perfumery.

283a Giraud (Fils), Grasse.—Perfumery.

284 Millet, F., 6 Boul. de Strasbourg, Paris.—Perfumery and soap.

285 Millot, Veuve, 90 Boul. Sébastopol, Paris.—Perfumery.

286 Roure, B., Fils, Grasse, Alpes-Maritimes.—Pomades, oils; special products for perfumers, &c.

287 Tombarel Frères, Place de la Roque, Grasse, Alpes-Maritimes.—Pomades, oils, scents, extracts of flowers, &c.

288 Warrick, Frères, Place Neuve, Grasse, Alpes-Maritimes.—Pomades, oils, scents, elementary substances for perfumes.

Class 25.—Leatherwork, Fancy Articles, and Basket-work.

289 Amson Frères, 63 Rue de la Folie Mercicourt, Paris.—Leather-work articles for smokers.

Agents: Schoch, Bruggmann and Co., 50 Flinders-lane E.; Melbourne.

290 Angerant, A., 25 Rue Châpon, Paris.—Luncheon baskets, &c.

291 Benard, Amand, 8 Cité Dupetit Thoars, Paris.—Bronze and artistic jewellery.

292 Boudinet, T., 5 Rue du Chateau d'Eau, Paris.—Basket-work.

293 Dupont, A., et Cie., 44 Rue Turbigo, Paris.—Brushes, toilet-ware, pigs' bristles.

Agents: Schoch, Bruggmann and Co., 50 Flinders-lane E., Melbourne.

293a Geo. Burk, Francart et Cie., 32 Faubg., Poissonnière, Paris.—Fans, leathers, morocco, little bronzes, &c.

294 Girandon, S. A., 1 Rue Thereze, Paris.—Morocco fancy articles, &c.

295 Marechal, P. J. A., 38 Rue de la Verrerie, Paris.—Pipes, cigarette-holders.

296 Piquerez, Veuve, 6 Cité Dupetit Thouars Paris.—Nick-nacks.

297 Ravenet, L. A., 28 Quai de Passy, Paris.—Artistic combs.

298 Tesson, C., 17 Rue Notre Dame de Nazareth, Paris.—Shaving brushes.

298a Vuillermoz-Vuez, St. Claude, Jura; 1 Flinders-lane West, Melbourne.—Pipes.

IV.

Fictile Manufactures—Glass, Pottery, &c.

Class 26—Crystal, Glass, and Stained Glass.

299 Bay, G., 16 Cours des Petites Ecuries, Paris.—Mirrors.

300 Blemont, F., 14 Rue Portefoin, Paris.—Small chests, glove and handkerchief boxes, smelling bottles, fancy articles.

300a Geo. Burk, Francart et Cie., 32 Faubourg Poissonnière, Paris.—Crystal glass of all kinds from the Baccarat factories.

301 Haudecoeur et Colpaert, 85 Rue Leon Gambetta, Lille, Nord.—Stained glass windows.

302 Hubert, 47 Rue du Chemin Vert, Paris.—Artistic and engraved glass.

303 Lengele et Cie., 31 Rue Notre Dame de Nazareth, Paris.—Glass cylinders, kaleidoscopes.

304 Malvezin et Cie., 6 Quai des Chartreux, Bordeaux, Gironde.—Bottles, decanters.

304a Verrières et Cristalleries, d'Aubervilliers et Verrière Parisienne Réunies, 12 Rue Martel, Paris.—Glass crystal.

Class 27.—Pottery.

305 Boudet, H., 2 Rue Deverrine, Limoges (Hte. Vienne).—Porcelain.

306 Demartial, G., et Cie., Rue des Penitents Haves, et Rue Ventenat, Limoges (Hte. Vienne).—Porcelain.

306 Geo. Burk, Francart et Cie., 32 Faubourg Poissonnière, Paris.—Porcelain and faience of all kinds, from Messrs. Haviland et Cie.

307 Laburthe, E., 36 Rue Paradis, Paris.—Porcelain flowers, &c.

308 Malvezin et Cie., 6 Quai des Chartrons, Bordeaux, Gironde.—Pottery.

309 Ministry of Public Instruction and Fine Arts.—Specimens from the national manufacture of porcelain at Sévres—vases, groups, &c.

310 Piet, E., 57 Rue Alexis Lepère, Montreuil sous Bois (Seine).—Artificial roses, porcelain flowers, &c.

311 Pratt, E., et Cie., 45 Jermin-st., Londres.—Limoges porcelain, crystals.

312 Société Anonyme de Tuilleries et Produits Ceramiques, Marseille.—Tiles.

313 Willam, Guerin et Cie., Limoges (Hte. Vienne).—Decorated porcelain, fancy articles.

V.

Textile Fabrics, Clothing, and Accessories.

Class 28.—Cotton, Thread, and Fabrics.

S14 Blazy Freres, 15 Rue Turbigo, Paris.—
Cotton canvas for tapestry.

Class 29.—Thread and Fabrics of Flax, Hemp, Jute, &c.

S15 Bellanger, F., 16 Rue du Viaduc a Laval (Mayenne).—Drills.
Agents: Schoch, Bruggmann and Co., 50 Flinders-lane E., Melbourne.

Class 30.—Worsted Yarn and Fabrics.

S16 Blazy Freres, 15 Rue Turbigo, Paris.—Threads of wool combed for embroidery, knitting for millinery.

S17 Delbart, E., Caullery (Nord).—Stuffs for dresses.

S18 Desrousseaux (R.), Fils, 2 Rue de l'Alouette Roubaix (Nord).—Stuffs of combed wool.

Class 31.—Woollen Yarn and Fabrics.

S19 Bonnier, Jeune, et Fils, Vienne Isère, Etablissements de Beelievienne.—Printed cloth.

S20 Desrousseaux (R.), Fils, 2 Rue d'Alouette Roubaix (Nord).—Combed wool.

Class 32.—Silk and Silk Fabrics.

S21 Huber, E., et Cie., 20 Rue de Rambuteau, Paris.—Plushes, silk velvets, dyed silks.

S22 Les Petites Fils de C. J., Bonnet et Cie., 8 Rue du Griffon a Lyon, Rhone.—Pieces of silk.

Class 34.—Lace, Net, Embroidery, and Trimmings.

S23 Blazy Freres, 15 Rue Turbigo, Paris.—Hand-embroidered tapestries.

S24 Degardin, E., 192 Faubourg St. Martin, Paris.—Surprise fans.

S25 Langlois, L., 7 Rue Louvois, Paris.—Trimmings for ladies' garments.

Class 35.—Hosiery and Underclothing and Accessories of Clothing.

S26 Blazy Freres, 15 Rue Turbigo, Paris.—Fancy millinery in wool.

S27 Bouisset, H., Millau.—Gloves of all kinds.

S28 Burkitt, Cousley et Cie., 5 Rue Cornélie Gémond à Grenoble (Isère).—Skin gloves.

S29 Calvat, E., 10 Rue St. Laurent, Grenoble (Isère).—Skins, manufactured gloves.

S30 Courvoisier, Bourgois et Cie., 126 Rue Lafayette, Paris.—Skin gloves.

S31 Farcy et Oppenheim, 13 Rue des Petits Hotels, Paris.—Corsets.

S32 Masson, A., et Fils, 33 Rue Réaumur, Paris.—Eye-holes, metallic buckles, metal buttons.

S33 Perrin Freres, Grenoble.—Skin gloves.

Class 36.—Clothing for both Sexes.

S34 Chavariber, P., 60 Boul. National Clichy la Garonne.—Blacking.

S35 Francois, L., Grellou, A., et Cie., 43 Rue des Entrepreneurs, Paris.—Waterproof clothing.

S36 Fretin, A., 64 Rue de Rennes, Paris.—Boots and shoes for ladies and gentlemen.

S37 Gandriaud Fils, 39 Rue du Temple, Paris.—Hats.

S38 Gibault, A., 7 Rue du Canal St. Martin, Paris.—Superior boots for ladies, girls, and children.

S39 Henry, A., 8 Rue Thévenot, Paris.—Artificial flowers.

S40 Jackson, M. A., Halluin, Nord.—Waterproof materials and clothing.

S41 Langenhagen, O. de, 10 Rue Chanzy, Luneville, Meurthe and Moselle.—Straw, Latanian, and Panama hats.

S42 Marcade, E., 14 Rue Notre Dame des Victoires, Paris.—Ladies' cloaks.

S43 Megroz, Portier et Cie., 10 Rue d'Aboukir, Paris.—Felt hats, hat trimmings.

S44 Pinet, F. J. L., 42 and 44 Rue Paradis, Paris.—Boots for ladies and gentlemen.

S45 Provot, E., Chazelles-sur-Lyon, Loire.—Trimmed felt hats, trimmings for hats.

S46 Salme et Lepine, 7 Rue Bergère, Paris.—Ladies' dresses.

S47 Simon et Cie., 5 Rue Croix des Petits Champs, Paris.—Children's clothing.

S48 Simonnet, A., 122 Rue Montmartre, Paris.—Dresses and clothes for little boys and girls.

S49 Storch, L., 26 Rue d'Aboukir, Paris.—Ladies' cloaks.

S50 Turbaux, Y., 3 Rue du Sentier, Paris.—Dresses for ladies and children.

S51 Vignat, A., and Bertholle, E., 103 Rue d'Aboukir, Paris.—Wooden heels for boots.

S52 Weil, A., 20 Rue Poissonniere, Paris.—Silk dresses, &c.

Class 37.—Jewellery and Precious Stones.

S53 Buhler et Cie., 43 Rue Meslay, Paris.—Precious stones of every description.

S54 Dutartre, A., and Menez, 12 Boul. St. Martin, Paris.—Jewellery.

S55 Gallonde et Renou, 16 Rue des 4 Fils, Paris.—Rolled gold jewellery.

S56 Poinsignon, E., 111 Rue Turenne, Paris.—Hard cameos, shell cameos, gold and silver jewellery.

Class 40.—Toys.

- 357 Blanchard-Deguitard, L., 83 Rue St. Charles, Paris.—Toy balloons.
 358 Brissonnet, A., 115 Boul. Sebastopol, Paris.—India-rubber balloons.
 359 Bru Jeune, Paris.—Dolls.
 360 Carriere, E., 115 Boul. Richard Lenoir, Paris.—Nick-nacks and mirrors.
 361 Chauvin, A., 24 Rue Charlot, Paris.—Toys.
 362 Chevrot, H., 1 and 3 Boul. de Strasbourg, Paris.—Dolls.
 363 Crauser, J., 44 Rue de Montmorency, Paris.—Toys.
 364 Denancy, P., 54 Faubourg du Temple, Paris.—Children's playthings.

- 365 Duhotoy Fils, E. A., 115 Rue St. Maur, Paris.—Mechanical carriages worked by pedals, dolls' carriages, velocipedes.
 366 Falck-Roussel, 200 Quai Jemmapes, Paris.—Dolls.
 367 Grimaud, B. P., and Chartier, 54 Rue de Lancry, Paris.—Playing cards.
 368 Mercier, H., 168 Rue St. Maur, Paris.—Doll's furniture.
 369 Pean Freres, 5bis. Rue Martel, Paris.—Toys.
 370 Petit et Dumoutier, 71 Rue Charlot, Paris.—Toys.
 371 Vichy, G. P., 36 Rue de Montmorency, Paris.—Mechanical toys.
 372 Wogue, A., et Levy, G., 8 Rue des Archives, Paris.—Playthings.

VI.

Raw and Manufactured Processes and Products.

Class 41.—Products of the Cultivation of Forests and of the Trades appertaining thereto.

- 373 Brun, Veuve J. P., et Fils, 19 Rue des Halles, Paris.—Corks, liege powder.
 374 Malvezin et Cie., 6 Quai des Chartrons, Bordeaux, Gironde.—Liege tickets.
 375 Nicolas, C., Bou-Zitoum, Commune de Duvivier, Constantine, Algérie.—Barks of oaks and acacias.
 376 Richarmes Freres, St. Galmier, Loire.—Natural mineral water.
 377 Vigues, G., Fils, 59 Rue du Faubourg St. Antoine, Paris.—Woods.

Class 42.—Products of Hunting, Shooting, Fishing, and Spontaneous Products. Machines and Instruments connected therewith.

- 378 Brun, Veuve J. P., et Fils, 10 Rue des Halles, Paris.—Sponges.

Class 43.—Agricultural Products not used for Food.

- 379 Belton, H., Dourdan, Seine et Oise.—Preparation for destroying scab in sheep.
 380 Nicolas, C., Bou-Zitoum, Duvivier, Constantine, Algérie.—Oleaginous plants and medicines.
 381 Trouche, I., Affreville, Alger, Algérie.—Fleeces.

Class 44.—Chemical and Pharmaceutical Products.

- 382 Arqueaux, U. N., Place du Marché et 18 Rue des Ponts à Nancy, Meurthe, and Moselle.—Hygienic ointments.
 383 Balaresque, H. C., Allées de Chartres, Bordeaux, Gironde.—Natural mineral waters.
 384 Bayard, T. N., 40 Rue de Cambrai, St. Quentin, Aisne.—Pharmaceutical products.
 385 Belton, —, chemist, Dourdan.—Medicines against the scab of sheep.
 385a Besegher, A. I., 62 Rue Beaubourg, Paris.—Varnishes.

- 386 Blanchard, L., 83 Rue St. Charles, Paris.—Pepsine and its compounds.

- 387 Chalmel, G., Fils et Gendre, 32 Avenue Daumesnil, Paris.—Varnishes.
 388 Chassaing et Cie., 6 Avenue Victoria, Paris.—Physiological products—pepsine, pepton, bromide of pure potassium, phosphate of lime.
 389 Cornu, C., 41 Rue de Vannes, Paris.—Medicated capsules.
 390 Dupuy, A. J., 225 Rue St. Martin, Paris.—Pharmaceutical preparations.
 391 Fourgault, E., 151 Avenue d'Argenteuil Asnières, Seine.—Belgian polish for metals.
 392 Gascard, A., St. Louis, Boisguillaume-les-Rouen, Seine Inférieure.—Jacobine water, and liqueur celestial dew.
 393 Gentil, L., Bonnières, Seine and Oise.—Refined alkalis, gelatine, soaps, extract of alcohol.
 394 Hartog, Georges et Cie., 112 Rue de Lafayette, Paris.—Oil varnishes.
 395 Icard, Andre, Smyrna, Turkey.—Opium and drugs. Agent : Vuillermoz-Vuez, 1 Flinders-lane West, Melbourne.
 396 Michel-Jackson, Adrien, Halluin (Nord).—Indiarubber, strong and pliable.

Class 45.—Chemical Processes for Bleaching, Dyeing, Printing, and Dressing.

- 397 Dehaynin, F., 58 Rue d'Hauteville, Paris.—Chemical products.
 398 Francois, L., Grellou, A., et Cie., 43 Rue des Entrepreneurs, Paris.—Indiarubber and gutta-percha manufactures.

- 399 Picot, J., 41 Rue de l'Echiquier, Paris.—Products for washing linen and cleaning toilet articles.

Class 46.—Leather and Skins.

- 400 Bal, Les Fils de Francois, La Reveriaz-Chambéry, Savoie.—Calfskins, chamois leathers, sheepskins tanned with sumac.
 401 Bernard, F., 53 Rue Turbigo, Paris.—Skins.
 402 Bouisset, H., 8 Rue du Rajol, à Millau, Aveyron.—Gloves.

- 403 Charnelet, Veuve, 98 Rue Oberkampf, Paris.
Mire.—Dyes and preparations for stuffs, exhibited by M. Delbart.
- 404 Combe, A., et Oriol, A., 18 Rue Claude Villefaux, Paris.—Fine skins for boots.
- 405 Desbenoit, Aine, Rue des Tanneries, Roanne, Loire.—Calfskins and leathers, waxed and russet, etc. Agents : Nason and Co., 268 George-st., Sydney.
- 406 Gerson, H., 7 Rue des Petites Ecuries, Paris.—Calfskins, &c.
- 407 Guillou, M., et Fils, 241 Rue St. Martin, Paris.—Calf and goat skins, sheepskins for boots. Sole Agency for Victoria : Ostermeyer, Dewez and Co. Limited, 181 Collins-st. West, Melbourne.
- 408 Jacob, L., 31 Rue de Buffon, Paris.—Boot uppers, straps, &c.
- 409 Jacob, J., et Wolfers, 108 Rue Lafayette, Paris.—White calfskins. Agents: Wedelles and Kinghorn, 32 Flinders-lane West, Melbourne.
- 410 Lecomte, R., et Gentilis, 1 Pont-Andemer, Eure.—Sole leathers.
- 411 Masurel et Caen, Croix, Department du Nord.—Woolen skins, tanned skins, dyed skins, combed wools.
- 412 Mayer, H., 17 Rue Thevenot, Paris.—Calf-skins.
- 413 Meyzonnier, E., Fils, Annonay, Ardeche.—Calfskins. Agents: Schoch, Bruggmann and Co., 50 Flinders-lane E., Melbourne.
- 414 Perrin Freres, Grenoble.—Skins.

VII.

Machinery, Apparatus, and Processes used in the Mechanical Industries.

- Class 48.—Apparatus and Processes used in Agricultural Works, and in Works for the Preparation of Food, Irrigation of Land, &c.**
- 415 Beaume, L., 66 Avenue de la Reine, Boulogne-sur-Seine.—Windmills, fire engines, presses, washing machines, pumps, &c.
- 416 Carre, E., 19 Rue de l'Estrapade, Paris.—Ice-making machines. Agents: Schoch, Bruggmann and Co., 50 Flinders-lane E., Melbourne.
- 417 Durafort et Fils, 162 Boul. Voltaire, Paris.—Syphons and apparatus for aerated waters; milk bottles, hermetically sealed.
- 418 Gilles, L., et Cie, 74 Rue Amelot, Paris.—Apparatus for the manufacture of mineral waters, machines for filling and corking.
- 419 Marty, A., Fils, Perpignan, Pyrenees Orientales.—Manure.
- 420 Mondolot, A. A., 72 Rue du Château d'Eau, Paris.—Apparatus for the manufacture of mineral waters, syphons.
- 421 Pilter, T., 24 Rue Alibert, Paris.—The Pilter patent hay press.

Class 50.—Apparatus used in Chemistry, Pharmacy, and Tanning.

- 422 Malligand, Fils, 31 Rue de la Côte d'Or, Paris. Alcohol meters.

Class 51.—Machines and Apparatus in General.

- 423 Herve et Moulin, 5 Rue St. Catherine, Bordeaux, Gironde.—Apparatus for rectifying alcohol.
- 424 Leclercq, Bailly, Fonteneau et Cie, 137 Rue du Faubourg, St. Denis, Paris.—Warming apparatus, warm-water baths, kitchen range, &c.
- 425 Machefer Fils, Fenquieres en Vime, Somme.—Artistic lock furniture.

- 426 Thessier-Fevre, H. G., 398 Rue St. Honore, Paris.—Powders for making seltzer water, lemonade, and sparkling wines.

Class 52.—Machine Tools.

- 427 Peugeot, F., Les Fils de, Valentigny, Doubs.—Wood-cutting machinery, saw-sharpening bench.

Class 54.—Apparatus and Processes used in Weaving.

- 428 Dossche, J., Lille, Nord.—Combs and carders.

Class 57.—Apparatus and Processes used in Paper-making, Dyeing, and Printing.

- 429 Marinoni Hippolyte, 96 Rue d'Assas, Paris.—Typographic presses.

Class 58.—Machines, Instruments, and Processes used in Various Works.

- 430 Messageries Maritimes, Marseilles.—Model of their steamer "Portugal." Agents: Dalgety and Co. Ltd., Melbourne.

- 431 Moynet, A., et Cie, 4 Rue des Haudriettes, Paris.—Tools for clockmakers, jewellers, silver-smiths, engravers, and mechanics.

- 432 Vilmorin-Andrieux et Cie., 4 Quai de la Megisserie, Paris.—Cases for transport of grain, &c.

- 433 Vuillermoz - Vuez, St. Claude, Jura.—Apparatus for the manufacture of pipes.

Class 60.—Harness and Saddlery.

- 434 Lochet, Aine, et Debertrand, 192 Rue St. Maur, Paris.—Saddlery, dog collars.

Class 61.—Railway Apparatus.

- 435 Decauville A., Petit-Bourg, Seine and Oise.—Portable railway.

Class 62.—Electric, Pneumatic, and Other Apparatus and Processes.

436 Francois, L., et Grellou et Cie, 43 Rue des Entrepreneurs, Paris.—Cables and electric wires.

Class 63.—Apparatus and Processes of Civil Engineering, Public Works, and Architecture.

437 Baudet, Donon et Cie, 139 Rue Saussure, Paris.—Photographs of metal buildings, samples of riveting, models of iron shutters.

438 Jaudin, H., 14 et 22 Cours Morand, Lyon, Rhône.—Drawings and specimens.

439 Pavin de la Farge, J. A., Vévières, Ardèche.—Lime and cement.

440 Vaillant, H. et E., Fontaine et Quintart, 181 Rue St. Honoré, Paris.—Locksmiths' work for buildings.

VIII.

Alimentary Products.

Class 66.—Cereals, Farinaceous Products, and Products derived from them.

441 Bernet, E. A., 17 Rue de Clery, Paris.—Hops.

442 Bouvaist, A., 17 Rue de la Briolerie, Abbeville, Somme.—Malts and lager beer.

443 Giraud, L., Blida, Department d'Alger, Algérie.—Wheat, barley, oats, semolina.

444 Groult, C. C., 12 Rue St. Apolline, Paris.—Tapioca, pastes, meal.
Agents: Schoch, Bruggmann and Co., 50 Flinders-lane E., Melbourne.

445 Nicolas, C., Bou Zitoun, Duvivier, Constantine, Algérie.—Wheat, barley, oats, maize, &c.

446 Potin, V. F., 101, 153 Boul. Sébastopol, Paris.—Tapioca, semolina, flour.

447 Rivoire et Carret, 121 Cours Lafayette, Lyon.—Pastes, semolina.

448 Societe des Grands Moulins de Corbeil, 6 Rue du Louvre, Paris (Director, A. Lainey).—Flour.

449 Vilmorin, A., et Cie, 4 Quai de la Mégisserie, Paris.—Grain, agricultural works and publications, plants, and flowers.

Class 67.—Bread and Pastry.

450 Guillout et Cie, 116 Rue de Rambuteau, Paris.—Biscuits.

Agents: Schoch, Bruggmann and Co., 50 Flinders-lane E., Melbourne.

451 Potin, V. F., 101 and 103 Boul. Sébastopol, Paris.—Biscuits and pastry.

452 Sigaut, J. J., 8 Avenue de Paris, Gentilly, Seine.—Gingerbread, biscuits, nougat.
Agents: Schoch, Bruggmann and Co., 50 Flinders-lane E., Melbourne.

Class 68.—Fatty Substances used as Food.

Milk and Eggs.

453 Depoumier, J., Marseille.—Finest olive oil.
Agents: Jules Renard and Co., 133 Collins-st. W., Melbourne.

454 Malet, V. L., et Delmas, Vieille route de Péïsanne à Salon, Bouches du Rhône.—Olive oil from Provence.

455 Nicolas, C., Bou Zitoun, Duvivier, Constantine, Algérie.—Olive oil.

456 Plagniol, de J., 18 Rue Cherchell Marseille, Bouches du Rhône.—Olive oil.

457 Potin, V. F., 101 and 103 Boul. Sébastopol, Paris.—Preserving butters.

458 Tombarel, F., Place de la Roque, Grasse, Alpes Maritimes.—Olive oil.

Class 69.—Meat and Fish.

459 Blanchard, L., 45 Rue Linois, Paris.—Blanched paties, nerac tongues.

460 Bouton et Henras, Place de la Banque, Perigueux.—Preserved truffles, foies gras, mushrooms, preserved vegetables.

461 Dion, G. L., Tenez, Alger, Algérie.—Preserved foods in oil.

462 Mory et Cie., Boulogne-sur-Mer, Pas de Calais.—Preserved fish.

463 Potin, V. F., 101 and 103 Boul. Sébastopol, Paris.—Preserved game and fish, preserved meats and foies gras.

464 Societe Franco-Australienne, Digeon et Cie., Noumea, New Caledonia.—Preserved meat.

Class 70.—Vegetables and Fruit.

465 Bouton et Henras, Place de la Banque, Perigueux.—Preserved truffles, foies gras, mushrooms, and vegetables.

466 Mory et Cie., Boulogne-sur-Mer, Pas de Calais.—Vegetables and preserved fruits.

467 Nicolas, C., Bou Zitoun, Duvivier, Constantine, Algérie.—Vegetables and fruits.

468 Potin, V. F., 101 and 103 Boul. Sébastopol, Paris.—Preserved vegetables and fruits.

Class 71.—Condiments and Stimulants, Sugar and Confectionery.

469 Bertrand Fils et Berge, Laurens, 127 Rue de Breteuil, Marseille, Bouches du Rhône.—Mustard.

Agents: Schoch, Bruggmann and Co., 50 Flinders-lane E., Melbourne.

470 Cusenier, E., Fils aine et Cie., 296 Boul. Voltaire, Paris.—Liqueurs.

471 Dramard et Prive, 83 Rue St. Merri, Paris.—Jams and jelly.

472 Nicolas, C., Bou Zitoun, Duvivier, Constantine, Algérie.—Condiments, stimulants, &c.

473 Potin, V. F., 101 Boul. Sébastopol, Paris.—Chocolate, chocolate bonbons, powdered cocoa, fancy chocolates, sweets, crystallised fruits, &c.

- 474 Rahard, L.,** 27 Rue du Commerce Blois, Loir and Cher.—Vinegar.
- 475 Societe Anonyme de Raffinerie Parisienne,** 18 Rue Drouot, Paris.—Sugar. Agents: Jules Renard and Co., 133 Collins-st. West, Melbourne.
- Class 72.—Fermented and Distilled Drinks.**
- 476 Balaresque, H., et Cie.,** Allee de Chartres, Bordeaux, Gironde.—Red wine, Martinique rum.
- 477 Bellot, L., et Cie.,** Cognac, Charente.—Brandies.
- 478 Bouvaist, A.,** 17 Rue de la Brolieire, Abbeville, Somme.—Pale ale and lager beer.
- 479 Canac, P., Fils,** Ain Temouchent, Oran, Algeria.—Red wine.
- 480 Carre-Perserval et Cie.,** 12 Rue du Champ de Mars, Reims, Marne.—Champagne.
- 481 Chalet-Voiry, E.,** 62 Rue des Halles, Tours, Indre et Loire.—White wine from Vouvray Aperitif.
- 482 Chateau Chenonceau,** Chenonceau.—Champagne. Agents: Schoch, Bruggmann and Co., 50 Flinders-lane E., Melbourne.
- 483 Clicquot, H.,** Reims and Ay, Marne.—Champagne.
- 484 Collas, A., et Cie.,** 38 Rue de la Comédie, Beaune, Côte d'Or.—Wines.
- 485 Curcier, Adet et Cie.,** Bordeaux.—Wines and brandies.
- 486 Cusenier, Fils, Aine et Cie.,** 226 Boul. Voltaire Paris.—Spirits. Agents: Schoch, Bruggmann and Co., 50 Flinders-lane E., Melbourne.
- 487 Deutz et Gildermann, Ay.**—"Gold Lack" champagne.
- 488 Dubonnet Freres,** 51 Rue St. Anne, Paris.—Royal Montmorency liqueurs. Agents: Schoch, Bruggmann and Co., 50 Flinders-lane E., Melbourne.
- 489 Eschenauer et Cie.,** 24 Quai des Chartrons, Bordeaux, Gironde.—Wines.
- 490 Exshaw, J.,** 30 Allée de Boutant, Bordeaux, Gironde.—Brandy. Agents: Lange and Thoneman, 69 and 71 William-st., Melbourne.
- 491 Fabre, A.,** Cournonteral, Hérault.—Frontignan sweet wine. Agents: Schoch, Bruggmann and Co., 50 Flinders-lane E., Melbourne.
- 492 Furlaud, G., et Cie.,** Rue de la Champagne, Cognac, Charente.—Brandy.
- 493 Guy, L., et Grasset,** 29 Quai Valmy, Paris.—Paris bitters, Paris cordial.
- 493a Haranger, Prevost,** 152 Rue de Faubourg, Montmartre, Paris.—Chartreuse liqueur.
- 494 Hector, A., et Cie.,** 43 Boul. Magenta, Paris.—Spirits, distilled drinks.
- 495 Hurard, M.,** St. Pierre, Martinique.—Table rum and brandy made from sugar-cane.
- 496 Irroy, E., et Cie.,** 46 Boul. Lundy, Reims, Marne.—Champagne.
- 497 Lacour, G. et J. Freres,** 43 Rue Poirier, Bordeaux, Gironde.—Straw envelopes for bottles.
- 498 Lafont Rapnouil, Pere,** 39 Rue de l'arsenal, Angoulême, Charente.—Brandy, fine champagne, and rum.
- 499 Lapoujade et Geraud,** 40 Rue Victor Hugo, Valence, Gironde.—Wines and brandies.
- 500 Lapoujade & Geraud,** Bordeaux, Valence.—Wine Growers and Merchants. Sole Agents for the Australian Colonies: Messrs. Petsch, Döehling & Co., 2 Little Collins-street, Melbourne; and 332 Kent-street, Sydney.
- 501 Laurent, L.,** St. Cloud, Oran l'Algérie.—Wines.
- 502 Lecluze, A. J.,** 22 Rue d'Alsace, Saumur, Maine et Loire.—Wines.
- 503 Lemaire, E.,** Ivry-la-Bataille, Eure.—Abbaye de Thélème liqueurs and fine liqueurs, euroçoia, Kummel, anisette.
- 504 Lescuras, L. L.,** Limoges, Haute Vienne.—Brandy, chartreuse, triple-dry and sweet curaçoa, marasquino bitter, kummel, anisette, &c.
- 505 Legougou, H.,** St. Cloud, Oran, Algérie.—Wine, brandy.
- 506 Loiseleur, A.,** Bourgueil, Indre et Loire.—Wines.
- 507 Malvezin et Cie.,** 69 Quai des Chartrons, Bordeaux, Gironde.—Wines and brandies.
- 508 Mansencau et Cie.,** 10 Rue d'Amiens, Compiègne, Oise.—Liqueurs and fruit brandy.
- 509 Menetrier-Belnat, J.,** 6 Rue du College, Beaune, Côte d'Or.—Wines.
- 510 Mory et Cie.,** Rue de l'Amiral Bruix, Boulogne-sur-Mer, l'as de Calais.—Bordeaux wines, champagnes, sparkling burgundies.
- 511 Munzer et Fils,** Bordeaux, Gironde.—Wines. Agents: Lange and Thoneman, 69 and 71 William-st., Melbourne.
- 512 Nicolas, C.,** Bois Zitoun, Duvivier, Constantine, Algérie.—Wines.
- 513 Nienwenhuizen, H.,** Chateau de Chenonceau, Indre et Loire.—Sparkling wines.
- 514 Pavard et Cie.,** St. Germain-en-Laye.—Beers, pale ale, stout, barley, malt, and hops.
- 515 Pellisson, Pere, et Cie.,** 28 Avenue de la Gare, Cognac, Charente.—Grande champagne.
- 516 Perrier, J., Fils, et Cie.,** 10 Quai Notre Dame, Chalons-sur-Marne, Marne.—Champagne.
- 517 Picon, G.,** 123 Rue de Paris, St. Denis, Seine.—Absinthe, liqueurs.
- 518 Potin, V. F.,** 101 and 103 Boul. Sébastopol, Paris.—Brandies, liqueurs, fruits in brandy and punch, champagne.
- 519 Preller, G., et Cie.,** Cours de Gourgue, Bordeaux, Gironde.—Wines. Agents: Jules Renard and Co., 133 Collins-st. West, Melbourne.
- 520 Prunier, J., et Cie.,** Cognac.—Brandies in wood and in bottles. Agents: Phipps Turnbull and Co., 122 Collins-st. West.
- 521 Regnier, J., et Cie.,** 71 Rue Chabot, Charny, Dijon, Côte d'Or.—Wines. Agent: Vuillermoz-Vuez, 1 Flinders-lane West, Melbourne.
- 522 Robin, Jules, et Cie.,** Cognac.—Brandies. Agents: Dalgety and Co. Limited, Melbourne.
- 523 Roederer, T., et Cie.,** Route de Châlons, Reims, Marne.—Champagnes. Agents: Jules Renard and Co., 133 Collins-st. West, Melbourne.
- 524 Schaeffer, E. C.,** 1 Rue Deurbroucq, Nantes, Loire Inférieure.—Beer.
- 525 Schroeder, Schyler et Cie.,** 97 Quai des Chartrons, Bordeaux, Gironde.—Wines.
- 526 Sicard, L. O., et Cie.,** 18 Quai de Bacalan, Bordeaux, Gironde.—Brandy.
- 527 Societe des Vins de St. Raphael,** Valence, Drôme.—Various wines. Agents: Jules Renard and Co., 133 Collins-st. West, Melbourne.
- 528 Wachter et Cie.,** Rue du Commerce, Epernay, Marne.—Champagnes. Agents: Lange and Thoneman, 69 and 71 William-st., Melbourne.

IX.**Sanitation, Medicine, and Public Relief.**

Class 73.—Sanitary Appliances, Surgical Instruments, Plans, Models, &c.

529 Bing, O., Rue Payen (Quai de Javel), Paris.—Cat-gut.

530 Blanchard, L., 83 Rue St. Charles, Paris.—Surgery instruments.

531 Carue, 269 Rue St. Denis, Paris.—Apparatus and processes used in gymnastics.

532 Delisle, J. T., 27 Rue Drouot, Paris.—Plan, section, and elevation of a sanitary colonial depot.

533 Filtre Chamberland Pasteur (Societe du), Rue Notre Dame de Lovette, Paris.—Filters.

534 Francois, L., Grellon, A., et Cie., 43 Rue des Entrepreneurs, Paris.—Indiarubber articles used in surgery.

Class 74.—Apparatus and Processes for Heating and Lighting.

535 Auguste, Besson et Cie., 35 Boul. des Capucines, Paris.—Stoves.

536 Pedrazzetti, Antoine, 16 Boul. du Temple, Paris.—Economical ovens.

XII.**Mining Industries—Machinery and Products.**

Class 82.—Apparatus and Processes of the Art of Mining and Metallurgy.

537 Clechet et Kinsmen, Seyssel, Ain.—Safety fuses for miners. Agent: Vuillermoz Vuez, 1 Flinders-lane West, Melbourne.

Class 83.—Mining and Metallurgy.

538 Compagnie Generale des Asphalte de France (Director, D. W. Henri).—117 Quai de Valmy, Paris.—"Seyssel" asphalt, &c.

539 Delmas, L., 45 Faubourg St. Antoine, Paris.—Metal tiles in zinc, bronze, and brass.

540 Les Fils de Peugeot Freres, Valentigny, Doubs.—Saws, tools, steel forks, coffee mills. Manufacturers of the finest grades of Rolled and Drawn Steel for all mechanical purposes, Band Saws, the celebrated LION brand; also Springs for Telegraphic Apparatus Blocks, and Musical Boxes, &c.; Horse Clippers, Coffee and Pepper Mills, Joiners' Tools, &c. See Exhibits of Band Saws working in Machinery Court; Tools, &c., in Main Court.

SOLE REPRESENTATIVE FOR VICTORIA :

**W. H. BLAKELEY,
116 Russell-street, Melbourne.**

INTRODUCTION TO THE NEW ZEALAND COURT.

THE insular colony of New Zealand consists of two principal islands and several smaller islets, its total length being 1100 miles, with an average breadth of 140 miles. Its outline is irregular, but no part is more than 70 miles distant from the coast. Its area is 100,000 square miles, or slightly less than that of Great Britain and Ireland. In the North Island, mountains occupy about one-tenth of the surface, the chief peaks being volcanic, some of which exceed 9000 feet. About one-fifth part of the South Island comprises the great range of the Southern Alps, the culminating point of which is Mount Cook, which has a height of 13,000 feet. The remainder of both islands consists of rolling plains freely intersected by rivers and streams, affording an abundant water supply to all parts of the country at every season of the year.

VEGETATION.—The indigenous forest is evergreen, and one-fifth part of the surface is clothed with valuable timber, some varieties of which have been largely exported ever since the settlement of the colony. Several of the native plants yield good dyes and tanning material, while the New Zealand flax, which is found in all parts, affords the valuable phormium fibre of commerce. Large tracts of country are covered with native grasses supporting many millions of sheep. Nearly all the varieties of trees having an economic value that grow in Europe, America, and Australia, have been introduced, and flourish with a vigour hardly attained in their original habitat. Delicately flavoured hops grow luxuriantly, and the European grasses and other fodder plants are thoroughly acclimated. In the South all the English fruits abound, while in the North Island, in addition to these, sub-tropical fruits mature perfectly.

POPULATION.—The colonisation of New Zealand was commenced by several independent settlements, which continued to survive as distinct provinces down to a late date, though the colony is now a united community, having a population of 645,000, of whom 42,000 are of Maori descent. The aborigines may be regarded as representing considerable wealth, owning, as not a few of them do, extensive tracts of country from which they derive large incomes. The rapid increase in the population is due partly to organised immigration, and partly to the high birth rate and low death rate which prevail. The birth rate in 1887 was in the proportion 32, and the death rate in the proportion of 10 per 1000. About one quarter of the population inhabit the four principal cities. Auckland contains 57,000, Wellington 28,000, Christchurch 45,000, and Dunedin 45,000 inhabitants.

CLIMATE.—While New Zealand, as might be anticipated from its peculiar conformation, is distinguished by great variety of climate, it is not subject to those extremes of temperature which would be experienced on a continent sweeping corresponding latitudes. The average temperature for spring is 55 degs., summer 63 degs., autumn 57 degs., winter 48 degs., Fahrenheit; while the average of the highest temperature ranges from 80 degs. to 74 degs., and that of the lowest temperature from 32 degs. to 20 degs., at moderate elevations. The least rainfall is on the east coast of both islands, and is about 30 inches per annum. On the west coast of the South Island, on the other hand, owing to the influence of the mountain ranges, it attains a maximum average of 112 inches. In other parts of the colony it ranges from 40 to 50 inches.

SCENERY.—The scenery of New Zealand is notably attractive. In the South Island the Alpine region is rendered easily accessible by deep fiords that penetrate with deep water from the sea coast into the heart of the Snowy Mountains. In the vicinity of Mount Cook, the great glaciers, some of which exceed in size those of Europe, are easily reached by rail and coach; while in the North Island the wonders of the volcanic district, including thermal springs, which possess medicinal qualities, can now be approached with equal facility.

SPORT.—New Zealand cannot fail to become a tempting resort on a yet larger scale for sportsmen from all parts of the world. Almost all the streams and watercourses are well stocked with ordinary trout, and several of the larger rivers and lakes with salmon trout, the latter reaching 25 lbs. in weight. The low lands teem with pheasants and quail, and in the mountains of Wellington and Nelson large herds of red deer are now domiciled, enabling sportsmen during the open season to enjoy stag-hunting.

WOOL.—The chief product of the colony is wool. Owing to the mildness of the winter season, and the ample supply of natural grasses for the feed of sheep, their fleeces, as a rule, reach great perfection in many varieties that are not grown to any great extent in other Australasian colonies. These varieties are specially in request, from the uniformity of their

quality. The most valuable are the long-wool types, Lincoln, Leicester, Romney Marsh, and Cotswold, which are reproduced in New Zealand of a kind that even surpasses the original English staples.

AGRICULTURE.—Agriculture is one of the most prosperous industries of the colony. The extent of land under cultivation is 7,250,000 acres, including artificial pasture. The average yield of wheat in the agricultural districts is 30 bushels to the acre, but the latest crop in some localities yielded over 70 bushels to the acre of wheat of superior quality. Barley and oats have about the same yield per acre, while the average return of potatoes, which are very largely cultivated, is over 5½ tons per acre.

MANUFACTURES.—The colonists employed in manufactures number about 26,000. There are 2268 different industrial establishments, in which a capital of £5,500,000 is invested, the gross value of their production being £7,500,000 for 1886.

FROZEN AND PRESERVED MEAT.—A most promising industry is that of preserving and freezing meat for export, in which 44 firms are engaged, producing over £500,000 sterling annually.

MEANS OF COMMUNICATION.—Means of communication have been liberally provided throughout the length and breadth of the colony. In addition to main roads in all settled districts about 1800 miles of railways are open. The latter have been built at a cost of £14,000,000, and yield a gross return of 7 per cent.; but as many of the lines were opened before being finished, two-thirds of the revenue is required for completing construction, providing maintenance, and meeting working expenses. Over 11,000 miles of telegraph wire have been erected, and the telephone system in the various towns is much more generally utilised in proportion to population than the same convenience is in most other business communities; the rates are lower, by more than one-half, than those usually charged elsewhere; while the profit derived from this department of Government is deemed highly satisfactory.

MINES.—The mineral wealth of New Zealand is great and varied beyond calculation, almost every known formation being represented in the geological structure of the country. The goldfields cover about one-third of the total area of the colony. The more permanent description of quartz-reefing has been decisively proved in many localities widely distant from each other, and large areas affording promising indications of auriferous and metalliferous ores yet await exploration. In the north of Auckland gold and silver leads have been followed to a depth of 600 feet below sea-level in formations similar to the great silver-bearing districts in other countries. In Nelson and Westland auriferous reefs have been traced to a much greater depth in slate formations similar to those of Victoria. Copper occurs in many directions, being in some cases combined with ores of silver, antimony, zinc, and bismuth; while other minerals, such as chrome, lead, manganese, and pure antimony ores, are found widely distributed. Iron ores are also abundant, and are met with under conditions favourable to their being worked, being associated with limestone, and contiguous to coal formations. Carboniferous deposits of qualities varying from brown coal to the very finest bituminous descriptions, and anthracite, are found in most parts of New Zealand, with the exception of the volcanic plateau region in the north, and the alpine ranges in the south. Even among the latter, however, local deposits of considerable value occasionally occur. The West Coast bituminous coal exists in seams from 10 to 40 feet thick, and deposits amounting to at least 150,000,000 tons have been proved by actual survey. Railways and extensive harbour works have been undertaken for the development of these coal measures. The annual output now exceeds 500,000 tons. Indications of the existence of valuable petroleum wells are also found on the east coast of the North Island, and capital is now being expended in boring, the quality of the oil obtained being eminently encouraging.

NEW ZEALAND EXHIBITS.

[All Exhibits under Section I. are transferred to the Fine Arts Section of the Catalogue, where they will be found under heading "NEW ZEALAND."]

II.

Education and Instruction—Apparatus and Processes of the Liberal Arts.

Class 6.—Education of Children, Primary Instruction, Instruction of Adults.

- 1 Callis, Charles, Wellington.—Portrait album of some of the chief men resident in the colony of New Zealand.
- 1a Cameron, H., Hokitika.—Anthem, "Centennial."
- 2 Grant, A., M.A., Waimate District High School, Waimate.—Time-table for New Zealand District High School
- 3 Queenstown, Borough of.—Exhibit.
- 4 Robinson, W. I., Board of Education, Auckland.—Five sheets drawings illustrating elementary mechanical drawing as taught in primary schools.

Class 7.—Organisation and Appliances for Secondary Instruction.

- 5 Cameron, H., Hokitika.—Musical notations.

Class 8.—Organisation, Methods, and Appliances for Superior Instruction.

- 6 Buchanan J., F.L.S., late Botanist to Geological Department, Wellington.—Illustrated work on New Zealand grasses.
- 7 Buller, Sir W. L., K.C.M.G., F.R.S., Wellington.—Illustrated work on New Zealand birds.
- 8 Colonial Museum, Wellington.—Models of fossils and ethnological objects.
- 9 Hector, Sir J., K.C.M.G., F.R.S., Wellington.—Models, &c., to illustrate the geology of New Zealand.
- 10 Kirk, T., F.L.S., Chief Conservator of Forests, Wellington.—Illustrated work on New Zealand farm trees.
- 11 New Zealand Commissioners, Wellington.—Collective exhibits of N.Z. Press.

Class 9.—Printing, Books.

- 12 Brett, H., Proprietor of the Auckland "Evening Star," Auckland.—Specimens of publications printed in the establishment.
- 13 Colonial Museum, Wellington.—Publications.
- 15 Geological Survey of New Zealand, Wellington.—Reports, maps, and publications.
- 15a Gudgeon, Major T. W.—Three books on New Zealand by the exhibitor.
- 16 Harris, J. C., Proprietor of the "New Zealand Times" and "Mail" newspapers, Wellington.—Specimens of publications printed in establishment.
- 16a Kimber, S., Queenstown.—A printed copy of the London "Times" of 22nd June, 1815.
- 16b Letham, W. R., Dunedin.—Calendar in frame.
- 18 New Zealand Institute, Wellington.—Publications.
- 18a Post Office Department (W. Gray, Secretary).—Frame of New Zealand postage stamps, etc., obsolete and current.

Class 10.—Stationery, Bookbinding, Painting, and Drawing Materials.

- 19 Brett, H., "Evening Star" Office, Auckland.—Specimens of bookbinding.
- 21 Grinsted, W. T., Christchurch.—An improved automatic apparatus for copying written documents.

Class 11.—General Applications of the Art of Drawing and Modelling.

- 23 Blackie, J. B., Auckland.—Model of a roof showing new system of slating (patented).
- 24 Buller, Sir W. L., K.C.M.G., F.R.S., Wellington.—Specimens of carved porch of Maori storehouse, "Pataka."
- 25 Christchurch, City Council of.—Panoramic view of the city of Christchurch, taken from the Church of England Cathedral.
- 26 Hill, C. J., Upper Riccarton.—Twelve carvings of scroll ornaments, &c.
- 27 Invercargill, City Council of.—Views of public buildings.
- 28 Linley, G. H., Wellington.—Picture frame and workboxes, inlaid with varieties of New Zealand woods.
- 29 Pukehika Hori, Wanganui.—Specimen of native carving, made of New Zealand totara and kauri.
- 30 Watson, J. & J., Grand Hotel, Dunedin.—Photographic views, illustrating the design of the hotel.
- 30a Waters, E., Dunedin.—Crayon drawing—"Capt. Cook."
- 31 Wellington, City Council of.—Panoramic view of the city of Wellington. Views of public buildings.

Class 12.—Photographic Proofs and Apparatus.

- 32 Attwood, T., Christchurch.—Photographs.
- 33 Bock, A., Auckland.—Photographs of New Zealand scenery, &c.
- 33a Bock, A., Auckland.—Camera made of mottled kauri by W. Park, Auckland.
- 34 Burton Bros., Dunedin.—Four frames of photographs—"New Zealand through the Camera."
- 35 Connolly & Hermann, Wellington.—Case and frames of direct photographic portraiture.
- 36 Coxhead, F. A., Dunedin.—Photographic views and photographs.
- 37 Dougall, W., Invercargill.—Photographic views on the Snares, Auckland, Campbell, Antipodes, and Bounty Islands, &c.
- 38 George, E., Christchurch.—Three frames photographic specimens. Many of the photos are three years old.
- 38a Ferrier, W., Timaru.—Photographs.
- 39 Hart, W. P., Invercargill.—Photographic portraits and views of New Zealand scenery.

- 40 Jones, F. L., Dunedin.—Specimens of portrait photography.
 41 Martin, A., Wanganui.—Photographs of New Zealand scenery and specimens of portrait photography.
 42 Martin, J., Auckland.—Photographs of New Zealand scenery.
 43 Morris, J. R., jun., Dunedin.—Specimens of every-day portraiture, enlarged photographic portraits and scenery.
 44 Morton, J. C., Auckland.—Enlarged photographs of New Zealand bush scenery; camera made of New Zealand woods.
 45 Queenstown, Borough of.—Photographs.
 46 Ring, J., Greymouth.—Photographic views of West Coast scenery and bromide gelatine enlargements.
 47 Strachan, D. C., Boys' High School, Wanganui.—Photographs of New Zealand scenery.
 48 Stuart, Helen, Auckland.—Photographs painted in water-colours.
 48a Photographs of New Zealand Scenery in the Amuri District, by F. S. Smith, General Survey Department.
 49 Valentine, G. D., Auckland.—Twenty frames of photographs of New Zealand and South Sea Island scenery.
 50 Willmott, E., Auckland.—Photographs.
 50a Fraser, J., Queenstown.—Violin without base bar.

- Class 13.—Musical Instruments.
 51 Milner & Thompson, Christchurch.—Pianos fitted with Thompson's new patent tuning apparatus.
 52 M'Queen, J., Nelson.—Violin, made principally of New Zealand wood.
 53 Simpson, A., West Plains, Southland.—Set of Highland bag-pipes, the work of an amateur.
- Class 14.—Mathematical and Philosophical Instruments.
 54 Hector, Sir J., K.C.M.G., F.R.S., Wellington.—New form of self-recording tide gauge, constructed by Messrs. Littlejohn & Son, Wellington, for the inventor.
- Class 15.—Maps, and Geographical and Cosmographical Apparatus.
- 55 Blackett, J., C.E., Engineer-in-Chief, Public Works Department.—Diagram maps, map showing roads, railways, harbour works, &c.
 56 Brown, W. R. E., Registrar-General, Wellington.—Statistical map.
 57 Hector, Sir J., K.C.M.G., F.R.S., Wellington.—Relief map of New Zealand, geological map of New Zealand.
 58 M'Kerrow, J., F.R.A.S., Surveyor-General, Wellington.—Maps showing result of surveys.
 59 Tronson, F. H., Wellington.—Lithographic maps of the city of Wellington, in colours.
 60 Survey Department, Wellington.—Physical map of New Zealand.

III.

Furniture and Accessories.

- Class 16.—Furniture.
 61 Auckland Timber Co., Auckland.—Mantelpieces, &c.
 62 Bayne, W., Auckland.—Cabinet, in choice New Zealand woods.
 63 Crawford, W. F., Gisborne.—Crawford's patent entering angles Maltese billiard table.
 64 Gebbie, J., Dunedin.—Magnificent mottled kauri extending table.
 65 Hickson, T. W., Mosquito-tent Manufacturing Co., Invercargill.—Mosquito-tents for beds and verandahs.
 66 Hill, C. J., Upper Riccarton.—Carved cabinet, antique style.
 67 Jorgensen, E. G., Napier.—Rustic flower stands, chairs, &c.
 68 Linley, G. H., Wellington.—Card-table, inlaid with 7½ pieces of New Zealand woods.
 69 McConnon, W., Hokitika.—Card-table.
 70 Nelson, W., Invercargill.—Fern-case, made of New Zealand red pine.
 70a Norrie, W., Shortland-st., Auckland.—Fancy inlaid cabinet work.
 71 Parnell, S. D., Wellington.—Five table-easels, or reading-stands, of choice New Zealand woods, cut from the solid plank.
 71a Schaeff, G., and Sons, Greymouth.—Two inlaid tables.
 72 Queenstown, Borough of.—Specimens.
 73 Thyne, R. G., Timaru.—Four inlaid table-tops.
 74 Wolf, H., Whangarei.—Bookcase and table of New Zealand woods.

- Class 17.—Upholsterers' & Decorators' Work.
 75 Blaikie, J. B., Auckland.—Specimen of fire-proof plastering.
 76 King, G., Christchurch.—Dyed wool rugs and mats.
 77 Reynolds, J., Hokitika.—Window blind-roller and improved spring rack pulley.
 78 Ross, Flora, Dunedin.—Tea-table and stools, ebonyised and painted.
- Class 19.—Paperhangings, &c.
 79 Edwards, W. H., Wellington.—Venetian blind, with patent cord-protectors.
- Class 21.—Goldsmiths' & Silversmiths' Work.
 80 Kohn, S., Wellington.—Hammered silver-ware, manufactured from New Zealand silver.
 80a Beeby, C., Queenstown.—Two keas' beaks mounted in gold and silver.
- Class 25.—Leatherwork, Fancy Articles, and Basketwork.
 82 Bicknell, Mary L., Napier.—Upright folding screen.
 83 Black, Agnes, Auckland.—Bouquet of flowers modelled in wax.
 84 Dixon, Ada, Ponsonby.—Leather-work bracket.
 85 Forrest, J., & Son, Sydenham.—Fancy, millinery, and other cardboard boxes.
 86 Jowitt, Mabel, Auckland.—Macrame mantel drape.

IV.

Fictile Manufactures—Glass, Pottery, &c.

Class 27.—Pottery.

- 87 Adams, L., Sydenham.—Glazed household potteryware; terra-cotta, plain and ornamental.
88 Graham & Winter, Milton.—Stoneware, majolica and general potteryware.

- 89 Norbury, George, Wellington.—One each, 3, 4, 6, 8, 12 & 15 in. drain-pipes.

- 90 Springfield Coal & Fire Clay Co., Springfield.—Drain pipes, fire-clay bricks, malt kiln and fire tiles, &c.

V.

Textile Fabrics, Clothing, and Accessories.

Class 28.—Cotton Thread and Fabrics.

- 91 McHattie, Margaret I., Lawrence.—One bed quilt.

Class 33.—Shawls.

- 106 Mosgiel Woollen Factory Co. Ltd., The Dunedin.—Shawls and rugs. Agent: E. Bethell, 62 Flinders-lane W., Melbourne.

Class 29.—Thread and Fabrics of Flax, Hemp, Jute, &c.

- 92 Auckland Fibre Manufacturing Co. Ltd., Auckland.—New Zealand flax, rope, and binder twine.

Class 34.—Lace, Net, Embroidery, and Trimmings.

- 107 Davidson, Mrs. J. R., Christchurch.—Fine specimens of Honiton lacework, all made by hand.

- 93 Cardno, E. R., Auckland.—Dressed flax.

- 107a Kinzig, E. E., Dunedin.—Cushion of point and Honiton lace.

- 94 Chinnery, C., Woodend.—Two bales, each 50 lbs., New Zealand dressed flax.

- 108 Milligan, Mrs. J. H., Oamaru.—One pair net window curtains.

- 95 Holmes & Bell, Blenheim.—Dressed New Zealand flax.

Class 35.—Hosiery and Underclothing, and Accessories of Clothing.

- 96 King, G., Christchurch.—Dyed phormium tenax.

- 109 Gallie, Helen, Christchurch.—Four pairs hand-knitted Highland stockings.

- 97 Murphy, D., & Co., Otaki.—New Zealand flax fibre.

- 110 Mosgiel Woollen Factory Co. Ltd., The, Dunedin.—Hosiery, &c. Agent: E. Bethell, 62 Flinders-lane W., Melbourne.

- 98 Nathan, L. D., & Co., Auckland.—New Zealand flax (phormium tenax), manufactured on the Waikato.

Class 36.—Clothing for both Sexes.

- 99 New Zealand Commissioners, Wellington.—Trophy of New Zealand flax and flax products.

- 111 Liardet, H. E., Wellington.—Muffs, &c., made from the skins of New Zealand birds, &c.

- 100 New Zealand Loan and Mercantile Agency Co. Ltd., The, Nelson.—One bale flax, dressed by F. G. Reynolds, Moutere.

- 112 Petherbridge, Bessie, Drapery Importing Co., Dunedin.—Cream "Duchesse" satin dinner dress, hand-embroidered, in a design of ferns, &c.

- 101 Pattie, D. H., Blenheim.—New Zealand flax, dressed by patent process (Feb., 1888), fibre kept intact.

Class 37.—Jewellery and Precious Stones.

- 101a Rutherford, J., Brightwater, Nelson.—New Zealand dressed flax.

- 113 Danneford, S., & Co., Auckland.—Jewellery ornaments of quartz, greenstone, and kauri gum.

- 102 Thompson, D., & Co., Tuamareana.—One bale dressed New Zealand hemp.

- 114 Spencer, E. H., Auckland.—Kauri gum and greenstone ornaments.

Class 30.—Worsted Yarn and Fabrics.

- 103 Mosgiel Woollen Factory Co. Ltd., The, Dunedin.—Tweeds and worsted yarn. Agent: E. Bethell, 62 Flinders-lane W., Melbourne.

- 115 Crumpe, J. L., Devonport.—Model of a trap for catching animals or fish.

Class 31.—Woollen Yarn and Fabrics.

- 104 Kelly, Mrs. M., Nelson.—Woollen scarf, spun and knitted by hand.

Class 38.—Portable Weapons, and Hunting and Shooting Equipments.

- 105 Mosgiel Woollen Factory Co. Ltd., The, Dunedin.—Woollen yarn, tweeds, and blankets. Agent: E. Bethell, 62 Flinders-lane W., Melbourne.

- 116 Mosquito Tent Manufacturing Co., Invercargill.—Mosquito tents, &c.

VI.

Raw and Manufactured Processes and Products.

- Class 41.—Products of the Cultivation of Forests, and of the Trades appertaining thereto.**
- 117a Arnold, Edwin, Wellington.—Nests of baskets, with Arnold's patent handles.
- 118 Auckland Timber Co. Limited, The, Auckland.—Specimens of wood for cabinet work and house building, taken from ship's side, 41 years' old.
- 119 Bagnall Bros. & Co., Thames.—Six samples white pine timber, &c.; bee-hives.
- 120 Bell, A. H., Halcombe.—Seven sections of timber: totara, rimu, matai, rata, rewarewa, white pine, black maire.
- 121 Booth & Co., Wellington.—Specimens of forest trees: totara plank, black maire, rewarewa.
- 122 Campbell, Dr. J. L., Auckland.—Specimens of kauri timber.
- 123 Cardno, E. R., Auckland.—One cwt. Tane-kaha bark.
- 124 Colonial Museum, Wellington.—Classified specimens of New Zealand timbers.
- 125 Collins, A. S., Kaikoura.—Specimen of kowhai timber.
- 126 Douthwaite, W., Hokitika.—One log each mottled silver pine and totara.
- 126a Gibson, E., Hokitika.—Two bundles of scrub which produce tanning and essential oils.
- 127 Henderson, Wratt & Co., Danevirke.—Specimens of totara, matai, remu, rough and prepared.
- 128 Hokitika Local Committee.—Specimens of timbers.
- 129 Johnson, S. B., Nelson.—Block of totara knot or burr, squared and French-polished.
- 130 Kirk, T., F.L.S., Wellington.—Five specimens very fine mottled kauri, &c.; seven wood sections of New Zealand timbers.
- 130a Lightband and Co., Nelson.—Two sacks of birch bark used for tanning purposes,
- 130b Muir, W., Dunedin.—Two coal baskets; two cane ship's fenders.
- 131 New Zealand Commissioners, Wellington.—Trophy of New Zealand timber.
- 132 New Zealand Midland Railway Co. Ltd., The, Christchurch.—Massive specimens of marketable forest trees growing upon the estate; also, polished boards.
- 133 Public Works Department, Wellington.—Specimens of timbers used in construction.
- 134 Queenstown, Borough of.—Specimens of timbers.
- 135 Rathbone, W., Waipawa.—Three-ft. lengths of totara, matai, remu, rewarewa, white pine, black maire.
- 136 Smith, H., Mohatohu.—Five specimens of timber, plain and polished.
- 137 Sullivan, M., Dunedin.—Three sizes of coal baskets (2, 4, and 7 cwt.), made from the native supplejack; specimens of supplejack in rough.
- 138 Tapper, A., Invercargill.—Slabs of timber, turnery, and carved woodware.
- Class 42.—Products of Hunting, Shooting, Fishing, and Spontaneous Products. Machines and Instruments connected therewith.**
- 139 Beetham, W., Masterton.—Stags' heads, shot in New Zealand, 1888.
- 140 Hatch, Joseph, Invercargill.—Sea-elephant oil.
- 141 Innes, W. M., Port Chalmers.—Six bottles cod-liver oil.
- 142 Liardet, H., Wellington.—Stags' heads and game birds, shot in New Zealand.
- 143 Matson, J. T., Christchurch.—Feathers of the first ostriches hatched and bred on exhibitor's farm in New Zealand.
- 144 Otago Museum (T. Jeffery Parker, B.Sc., F.L.S., C.M.Z.S., Curator), Dunedin.—Collection of New Zealand food fishes.
- 145 Smyth, W., Caversham.—Stuffed birds.
- 146 Wellington Club, Wellington.—Stag's head, shot in Wairarapa district.
- Class 43.—Agricultural Products not used for Food.**
- 147 Allen, W. B., Clareville.—Lambs' fleeces of Romney Marsh wool, samples of 1886 and 1887 wool clips.
- 148 Cobb, Robert, Palmerston North.—Wool.
- 149 Holmes, Hon. M., M.L.C., Dunedin.—Samples of wool.
- 150 Matthews, A., Wairongomai.—Collection of wool samples from exhibitor's flock.
- 152 New Zealand Commissioners, Wellington.—Wool trophy, stating number of sheep depastured, and amount of wool clipped last season.
- 152a Sutton, F., Thornbury.—Tall fescue (*Festuca Elatior*), grown on strong soil; strictly perennial, growing a very large quantity of feed.
- 153 Tanner, T., Riverslea.—One bale of hops, picked in February, 1888; fourth season's picking without manure.
- 153a Tidswell, J., Napier.—Case containing samples wool, worsted, etc.
- 154 Wallace, J., Papatoitoi.—Ten fleeces unskirted Lincoln wool in grease.
- 155 Young & Dalgety, Oamaru.—Two bales scoured merino wool.
- 156a Anderson, R., and Co., Dunedin.—Blacking.
- Class 44.—Chemical and Pharmaceutical Products.**
- 156 Bate, D. B., Auckland.—Electrical fire extinguishing bottle, exploded by chemicals.
- 157 Eakins & Co., Napier.—Arsenical sheep dip in solution.
- 158 Gear Meat Preserving & Freezing Co. Limited, Wellington.—Tallow and neat's foot oil, hoofs, bones, and horns.
- 158a Gibson, E., Hokitika.—Two bottles of tannin; one bottle scented water.

- 159 Hatch, J., Invercargill.—Sheep dip, mange and blight specific.
- 159a Hansmann, G., Invercargill.—Eradicator for removing grease stains of every description.
- 161 Klingenstein, C., Christchurch.—Chemical fluid for extinguishing fires.
- 162 McLeod Bros. Ltd., Dunedin.—Soaps and candles.
- 163 McKeoghan, O., Takaka.—Terra-cotta paint, mixed with white lead, makes a beautiful stone colour.
- 164 New Zealand Frozen Meat and Storage Co. Ltd., Auckland.—Sulphuric acid, sulphate of ammonia, superphosphate of lime.
- 165 Mitchelson, E., and Co., Auckland.—Very choice selection of kauri gum.
- 166 Te Aroha Soda & Mineral Water Co. Limited. Agents : Hancock & Co., Auckland.—Te Aroha mineral water, aerated, in bottles.
- 167 Western Packing and Canning Co., Patea.—Tallow, oil, bones.
- 168 Yates, E., Port Albert.—Two specimens of kauri gum.
- Class 45.—Chemical Processes for Bleaching, Dyeing, Printing, and Dressing.**
- 169 Barber, W. H. P., Wellington.—Dyed flannel and curled feather.
- Class 46.—Leather and Skins.**
- 170 Liardet, H. E., Wellington.—Choice selections of dressed birds' skins, &c.

VII.

Machinery—Apparatus and Processes Used in the Mechanical Industries.

- Class 47.—Agricultural Implements and Processes used in the Cultivation of Fields and Forests.**
- 171 Andrews & Beaven, Canterbury Machine Works, Christchurch.—Chaffcutters, patent bagger and press, and concrusher, with self-regulating feed.
- 172 Bristed, R. B., Napier.—Blunt's patent screw and lever press, for weighting ensilage stacks.
- 173 Booth, Macdonald & Co., Christchurch.—Ploughs, harrows, cultivator, and windmills, &c.
- 175 Duncan, P. & D., Christchurch.—Ploughs, harrows, and manure drill.
- 176 Gear Meat Preserving and Freezing Co. of New Zealand Ltd., Wellington.—Bonedust.
- 177 Lock Bros., Nelson.—Bonedust, bone flour, and compound manures.
- 178 New Zealand Frozen Meat and Storage Co. Ltd., Auckland.—Manures for grass, corn, turnips, &c.
- 179 North, H., & Co., Dunedin.—Colonial-made barb wire, three coils.
- 180 Piercy, J., Wanganui.—Picket and rabbit-proof fence.
- 181 Reid & Gray, Dunedin.—Ploughs, harrows, drills, chaffcutter and bagger, &c.
- Class 48.—Apparatus and Processes used in Agricultural Works and in Works for the Preparation of Food, Irrigation of Land, &c., &c.**
- 186 Pond, J. A., & Co., Auckland.—Packages for the better carrying of edible materials, in wood enamelled by Pond's patent process.
- 187 Rout, W. J., Wellington.—Two Rout's patent coffee extractors, patented in New Zealand.
- 188 Stenhouse, G. S., Blenheim.—Stenhouse & Smith's patented gaseous self-acting vermin and rabbit exterminator.
- 189 Withell, R., Brookside, Canterbury.—Patent improved differential churn, with patent oscillation dashers and butter screen.
- Class 49.—Implements, Models, and Plans connected with Irrigation of Land.**
- 190 Booth, Macdonald & Co., Christchurch.—Iron windmills, 10-ft. wheels, and pumps with gearing to give increased power.
- 191 Danks, J. & T., Christchurch.—Model windmill, 8-ft. windmill to work in Exhibition Grounds.
- 192 Price, W. H., Sydenham.—Seven double-action pumps, for fire, garden, and house purposes.
- 192a Richardson, D., Cambridge, Waikato.—Wind pumping mill for supply of water for agricultural purposes, or as a means of power.
- 192b Clark, G. J., Hokitika.—Models of working engine.
- 193 Simpson, R. M., Wellington.—Rotary pump for raising water or other liquid ; exhibited in motion.
- Class 51.—Machines and Apparatus in General.**
- 194 Colonial Museum, Wellington.—Machine for testing strength of timbers and fibres.
- 195 Doualain, W., Blenheim.—A lock spindle and method of attaching same to knob.
- 196 Hammond & Bishop, Wellington.—A new automatic arrangement for tilting casks for beer or wine.
- 197 Hayes & Jenkins, Wellington.—Patent totalisator.

197a Jagger & Parker, Auckland.—Improved washing machine.

198 Kinniburgh, J. W., Wellington.—Working model of warehouse lift, fitted with Kinniburgh's patent safety clutch.

Class 52.—Machine Tools.

200 Gorrie & Sons, Nelson.—A pick which is easily converted into a crowbar.

Class 56.—Apparatus and Processes used in the Manufacture of Furniture and Objects for Dwellings.

202 M'Arthur, D. W., Hokitika.—Automatic safety window fastener.

204 Reynolds, J., Hokitika.—Reynolds' spring window rack pulley.

205 Roberts, W. H., Christchurch.—Roberts' patent window lift (to do away with cords and weights.)

Class 58.—Machines, Instruments, and Processes used in Various Works.

206 Bate, D. B., Auckland.—One Eureka bottle-machine.

207 Gorrie, J., Nelson.—A pencil gauge.

207a Gorrie, J., Nelson.—Instrument for slotting collars.

Class 59.—Carriages and Wheelwrights' Work.

209 Cousins & Atkin, Auckland.—Hooded gig; one 5-glass cee-spring landau, made of colonial timber.

210 Gorrie & Sons, Nelson.—Travelling vehicle called a "Sulky," made of New Zealand timbers.

212 Smith, C., Auckland.—Perambulators and invalid's carriage.

Class 60.—Harness and Saddlery.

214 Dixon, R. G., & Co., Dunedin.—Patent malleable horse-shoes, &c.

215 Harrington, J., Invercargill.—One case of shod feet; one rack of horse-shoes.

216a Norman, H., Timaru.—Hand-made green-hide stockwhip.

Class 61.—Railway Apparatus.

217 Ashcroft, G., Nelson.—A model of a new method of working trains in mountainous districts by hydraulic lifts.

Class 62.—Electric, Pneumatic, and other Apparatus and Processes.

218 Bate, D. B., Auckland.—One electrical combination, for hot and cold air ventilation.

219 Bristed, R. B., Napier.—Shields' patent wire strainer.

221 Mainland, Hugh L., Dunedin.—Wire strainer.

222 Reid, J. S., Dunedin.—Reid's patent "Titan" wire strainer, and patent triplex permanent wire stretcher.

223 Reid & Gray, Dunedin.—Wire strainer.

224 Tronson, F. H., Wellington.—Tronson's patent electric automatic fire alarm.

Class 63.—Apparatus and Processes of Civil Engineering, Public Works, and Architecture.

225 Cooper, J., Wairoa, Hawke's Bay.—Samples of building and monumental stone.

225a Cother, J., Christchurch.—Gas economiser.

226 Bernasconi, G., Wellington.—Improved telescopic ladder, suitable for fire escape and general purposes.

226a Craig, J. J., Auckland.—Lime, concrete, etc.

227 Holliday, J., Harbour Master, Wellington.—Plan of the harbour of Wellington.

228 Lyttelton Harbour Board, Christchurch.—Model of the harbour of Lyttelton, showing the accommodation for vessels, &c.

229a Public Works Department, Wellington.—Photographs of railways and other public works executed in New Zealand.

230 Reefton Committee, Reefton.—Map illustrating mines.

230a Smith, C. H. and F. W., Wellington.—An improved fire-escape, which can be rapidly placed in position.

231 Stocks, W., Christchurch.—Specimen of Mount Somers stone.

232 Taylor, W. M., Ashburton.—Two Taylor's domestic fire escapes.

233 Wellington Harbour Board, Wellington.—Maps of the harbour, showing the wharf accommodation in the harbour of Wellington.

233a Wilson & Sons, Auckland.—Hydraulic lime and lime concrete only.

233b Allmann, Captain, U.S.S. Co. Ltd., Dunedin.—Patent life-saving raft for sea use.

Class 64.—Navigation and Life Saving.

234 Hart, J. T., Wellington.—Hart's course and bearing deviation eliminator.

234a Holmes, J., Auckland.—Model of "Holmes' Patent Accident and Collision Apron," for stopping leaks in vessels.

235 Smith, H. J., Dunedin.—Working models of ship's davit and gangway life-saving apparatus.

236 Union Steamship Co. of New Zealand Ltd., Dunedin.—Working models of steamers "Mararoa" and "Rotomahana," &c.

VIII.

Alimentary Products.

Class 66.—Cereals, Farinaceous Products, and Products derived from them.

- 238 Allen, R., & Co., Timaru.—Flour made by Hungarian roller process.
- 239 Auckland Roller Mills, Auckland.—Wheat, flour, and patent porridge meal ; grain grown in New Zealand.
- 241 Brown, J. H., Wairoa, Hawke's Bay.—Prime sample of wheat (about 60 lbs.).
- 243 Carswell, White & Co., Invercargill.—Rye-grass seed, Timothy seed.
- 244 Chamberlain Bros., Masterton.—Prime samples of wheat, oats, and flour ; sheaf of wheat and oats.
- 245 Chambers, J. B., Havelock.—White Tuscan wheat, Cape barley, and oats.
- 246 Cleave, R., Invercargill.—Oats, Green Mountain spring wheat (ripens in 15 or 16 weeks), perennial rye-grass, cocksfoot, &c., machine cleaned.
- 247 Dulgan, J., Wanganui.—Red Tuscan long-hulled milling wheat, "Snowflake" superfine silk-dressed flour.
- 248 Fell, A. G., Picton.—Best pale malt and malting barley.
- 249 Firth, J. C., Auckland.—Patent roller flour, and germina for making porridge and puddings.
- 251 Fulton & Southwell, Napier.—Seeds grown in Hawke's Bay district. Cockfoot, perennial rye-grass, Yorkshire hero peas, &c.
- 252 Gower, J. W., Manawatu.—Grass seeds.
- 253 Grigg, J., Longbeach, Canterbury.—Wheat (three samples), Golden veitches, three sheaves of wheat.
- 255 Hayhurst & Brown, Temuka.—Flour by the patent roller process.
- 256 Holmes, Hon. M., M.L.C., Dunedin.—Prime samples of wheat, prime samples of grass seed.
- 257 Laird, J., Wanganui.—Perennial rye-grass and cocksfoot, veitches, rape seed.
- 258 Lock Bros., Nelson.—Samples of pedigree wheat.
- 259 M'Keever, W., Normanby.—Cocksfoot.
- 259a Malcolm, J., Napier.—Clover seed.
- 260 Manning, S., & Co. Ltd., Christchurch.—Pale malt.
- 261 Meek, J. & T., Oamaru.—Wheat, oats, barley, flour, and oatmeal.
- 262 Menlove, E., Windsor Park, Oamaru.—One sack pearl velvet wheat, 242 lbs. net ; one sack pearl Tuscan wheat, 248 lbs. net.
- 264 McMaster, A. A. & R., Oamaru.—Sheaves of barley ; yield, 50 bushels per acre.
- 265 Murdoch, A., Oamaru.—Sheaves velvet wheat ; yield, 55 bushels per acre. Sheaves Danish oats ; yield, 70 bushels per acre.
- 266 New Zealand Commissioners, Wellington.—Trophy of New Zealand food products.
- 267 New Zealand & Australian Land Co. Ltd., Dunedin.—Wheat, oats, barley, perennial rye-grass, and cocksfoot.

268 New Zealand Loan and Mercantile Agency Co. Ltd., Invercargill.—One sack "pedigree" oats.

269 Ormond, J. D., Napier.—Meadow fescue seed.

271 Robertson, J., Queenstown.—Wheat and flour.

272 Ritchie & Wilson, Wanganui.—Red Tuscan wheat, malting barley, potato oats.

273 Reid, Donald & Co.—Samples of grain.

275 Evans & Co. Ltd., Timaru.—Wheat and oats.

275a Sumpter, G., Oamaru.—Barley.

276 Sutton, F., Thornbury.—Meadow fescue, tall fescue, Italian rye-grass seed.

277 Timaru Milling Co. Ltd., Timaru.—"Silver dust" flour, wheat (3 samples), oatmeal.

278 Vincent & Co., Christchurch.—Barley.

278a Ivey, W. J., School of Agriculture, Lincoln.—Samples of grain in sheaf.

Class 67.—Bread and Pastry.

- 280 Phoenix Confectionery Co. Ltd., The, Dunedin.—31 tins assorted biscuits.

Class 68.—Fatty Substances used as Food. Milk and Eggs.

283 Flemington Cheese, Butter, & Bacon Factory Ltd., Ashburton.—Four each 14-lbs. & 2 each 50-lbs. cheese, made on Cheddar principle.

284 Foster & Gosling, Blenheim.—Butter in 2-lb. tins.

285 Greystown Butter & Cheese Factory Co. Ltd., Greystown.—Two cheeses, each 33 lbs.

286 Hamilton, A., Timaru.—Two Cheddar cheeses, 23 and 24 lbs.

287 Inchclutha Dairy Factory Co., Stirling.—Six cheeses.

287a N.Z. and Australian Land Co. Ltd., Dunedin.—Cheese.

288 New Zealand Frozen Meat & Storage Co. Ltd., Auckland.—108 tins preserved butter, 144 lbs. net.

289 Olson, E., Woodland Cheese Factory, New Plymouth.—Cheese.

291 Robbins, S. M., Gore.—Ten Cheddar cheeses, white, coloured, and saged.

293 Saxelby, J., Woodlands.—Cheddar cheese, made in March, 1888.

294 Stirling Cheese Factory, Stirling.—Cheese.

295 Taranki Butter Packing Co., New Plymouth.—Cheese ; butter packed in tins and kegs of various sizes as exported.

296 Temuka Butter, Cheese, and Bacon Curing Factory Co. Ltd., Temuka.—Large and loaf cheese.

297 Waimatuka Dairy Factory Co. Ltd. Invercargill.—Cheese.

298 Wayte Bros., Otama Bridge Dairy Factory, Otama Bridge, Gore.—Cheddar cheese, made on the Canadian factory system.

299 Western Packing and Canning Co., Patea.—Butter.

300 Wyndham Dairy Factory Co. Ltd., Wyndham.—Cheese.

Class 69.—Meat and Fish.

301 Ewing & Co., Batley, Kaipara.—Canned New Zealand mullet.

302 Fernandos, N., & Co., Wellington.—Preserved fish.

303 Foster & Gosling, Blenheim.—Preserved meats, game, fish.

305 Fulljames, H. V., Bluff.—Tinned oysters.

306 Gear Meat Preserving & Freezing Co. of New Zealand Ltd., The, Wellington.—Corned beef; preserved meats and soup.

307 Hutton, J., Bluff.—Preserved fish.

308 Kirkpatrick, S., & Co., Nelson.—Preserved fish, game, poultry, and soups.

309 Leask & Co., Half Moon Bay, Stewart Island.—Canned oysters, 48 cans.

310 Masefield Bros., Batley, Kaipara.—Tinned beef, tinned mullet.

311 New Zealand Frozen Meat & Storage Co. Ltd., Auckland.—Tins of various preserved meats.

313 Robertson Bros., Stewart Island.—New Zealand canned fish and oysters.

314 Rowe, J., Christchurch.—Hams and bacon, illustrations of pigs bred in New Zealand.

314a Tunnage & Son, J., Port Chalmers.—Smoked barracouta, haddock, and frost fish; dried ling fish.

315 Vincent & Co., Christchurch.—Smoked hams and bacon.

316 Wanganui Meat Preserving Co. Ltd., The, Wanganui.—Preserved meats and soups.

317 Western Packing & Canning Co., The, Patea.—Canned meats, tierced beef.

Class 70.—Vegetables and Fruit.

318 Beloe, W. L., Pukekohe.—Twenty varieties of apples.

319 Foster & Gosling, Blenheim.—Preserved vegetables.

320 Gordon, F. M., Wellington.—Assorted pickles.

321 Holmes, Hon. M. M. L.C., Awa Moa, Oamaru.—Potatoes, mangold, and turnips.

Class 71.—Condiments and Stimulants, Sugar and Confectionery.

322 Allpress, J., Timaru.—Tomato sauce.

323 Beetham & Co., Auckland.—Olson's tomato sauce.

324 Epping, G. W., Normanby.—Honey.

325 Foster & Gosling, Blenheim.—Preserved fruits.

326 Gordon, F. M., Wellington.—Sauces, preserved fruits.

327a Higgs, W. M., Auckland.—One doz. champion tomato sauce.

328 Kirkpatrick, S., & Co., Nelson.—Jams and conserves, candied peel, Worcestershire and tomato sauce.

329 Masefield Bros., Batley, Kaipara.—Preserved fruits.

329a Morris, Colonel, Thurlby Domain, Queenstown.—Honey.

331 Phoenix Confectionery Co. Ltd., Dunedin.—Jams, jellies, honey, and confectionery.

331a Richardson, D., Cambridge, Waikato.—Two doz. 3-lb. tins pure extracted granulated honey.

332 Ryley, Mary, Lepperton.—Home-made preserves.

333 Stevenson, G., Waerengaahika.—Honey in comb and bottle.

334 Strang, D., Invercargill.—Coffees prepared by Strang's patent method of roasting, peppers, and spices (silk-dressed).

335 Targuse, A., Timaru.—Assorted jams and jellies.

337 Young, Mrs. J. A., Winchester.—Pure tomato sauce.

Class 72.—Fermented and Distilled Drinks.

338 Adams, E., Pahi, North Kaipara.—Cider, made from ripe fruit only, bottled October, 1887.

340 Brown, Campbell & Co., Auckland.—Bulk ale.

340a Castlemaine Brewing Co. Ltd., Melbourne.—Trophy of ale, porter, etc.

341 Edmonds, J., Petone.—One hhd. each light, draught, and heavy ale; bitter ale.

341a Egan, F., Kaiapoi.—Two hhds. of ale.

342 Ellis, F. H. M., Nelson.—Cherry wine.

343 Joel, M., Dunedin.—Strong, medium, and light bulk ales and stout; bottled ale and stout.

345 Mandl, J., Hokitika.—Beer in bulk.

346 Manning, S., & Co. Ltd., Christchurch.—Bulk ale and stout, bottled ale and stout.

347 M'Gavin, M'Gregor & Smith, Dunedin.—Mild and strong ale in bulk.

348 Martin, J. T., Invercargill.—Ale and stout in bulk.

349 Pearce, J. S., Kumara.—Ale in bulk.

350 Speight, J., & Co., Dunedin.—Light, medium, and strong ales in bulk.

351 Soler, J., Canonga Vineyard, Wanganui.—New Zealand wines, &c.—Port, sherry, constantia, muscat, verdeilho, and cider.

353 Vincent & Co., Christchurch.—Ale in bulk.

354 Webb, S. H., Ponsonby.—New Zealand wines—Sherry, tokay, constantia, tonic, orange, peach.

355 Wendel, I., Auckland.—White and dark wine, bottled and in bulk.

IX.**Sanitation, Medicine, Hygiene, and Public Relief.****Class 73.—Sanitary Appliances, Surgical Instruments, Plans, Models, &c.**

- 356 Neil, J., Dunedin.**—Herbal medicines, &c.
357 New Zealand Patent Medicine Manufacturing Co. Ltd., The, Auckland.—Hitchens' blood restorer and ointment.
358 Robertson, W., Woodlands.—Medicine and ointment.

Class 74.—Apparatus and Processes for Heating and Lighting.

- 359 Atkinson, T., Christchurch.**—Portable cooking range; range with boiler.

X.**Agriculture and Associated Industries.****Class 75.—Specimens of Farm Buildings and Agricultural Works.**

- 361 Bastin, G., Wellington.**—Improved model of a stable.
362 Booth, Macdonald & Co., Christchurch.—Lough's patent wool press.
363 Caswell, J., Ponsonby.—Caswell's improved incubator.

365 Ivey, W. E., School of Agriculture, Lincoln.—Photo of Agricultural College Buildings, Lincoln.

366 Murray, D., Wangarui.—Patent lever wool press. Agents: Campbell, Guthridge and Co 1 William-st., Melbourne.

367 Schofield, R., Onehunga.—Egg-producing food.

XI.**Horticulture.****Class 79.—Fruit and Fruit Trees.**

- 369 Beloe, W. L., Pukekohe.**—Twelve varieties of blight-proof apple trees.

373 Marshall, J., Hokitika.—Two books of ferns.

374 Maxwell, E., Opunake.—Large collection of dried ferns.

Class 80.—Seeds and Saplings of Forest Trees.

- 370 New Zealand Commissioners.**—Collection of native ferns and shrubs.

Class 81.—Plants for Conservatories.

- 371 Davidson, H. W., Christchurch.**—93 varieties vegetable, flower, and other seeds.

375 Marshall, J., Hokitika.—Two cases ferns and native plants.

376 Malcolm, J., Papakuri.—Native plants.

377 Nelson, W., Invercargill.—Case of ferns.

378 Travers, H. H., Wellington.—Native plants in pots.

- 372 Kirk, T., F.L.S., Wellington.**—Illustrated specimens of New Zealand forest trees, and flowers, fruit, and foliage of New Zealand trees.

378a Wells, W. C., Hokitika.—Two books of ferns.

XII.

Mining Industries—Machinery and Products.

Class 82.—Apparatus and Processes of the Art of Mining and Metallurgy.

- 379 Ashcroft, G., Nelson.—Quartz crushing, pulverising, and amalgamating machine.
- 380 Auckland Chamber of Commerce, Auckland.—Two-stamp battery (pneumatic) and amalgamating pan, patented.
- 382 Galbraith, D. R. S., Remuera.—Working model (Simoon) ore-roasting furnace, pneumatic ore stamper.
- 383 Johnston, W. G., Hokitika.—Model of a new gold-saving machine named the "Hydraulic Syphon Amalgamator."
- 384 M'Arthur, D. W., Hokitika.—Model of retrograde tail-race for saving fine gold.
- 384a Young, J., Auckland.—An amalgamating pan with vat stirrer.

Class 83.—Mining and Metallurgy.

- 385 Brunner Coal Co., Greymouth.—Section of bitumenous coal seam; coke made from the coal; fire-clay goods, gas retort.
- 386 Bay of Islands Coal Co. Ltd., Auckland.—Exhibit.
- 387 Coal Creek Coal Co., Cobden, Greymouth.—Specimen of coal.
- 388 Collingwood Coal Co., The, Nelson.—Coal from the Collingwood mine.
- 389 Colonial Laboratory, Wellington; W. Skey, analyst.—Samples of coals, ores, and minerals, with analyses.
- 390 Danks, J. & T., Christchurch.—Case of brass-foundry work.
- 391a Fraser, J., Invercargill.—Block of granite from Ruapuke.
- 392 Geological Survey Department.—Collections of rocks and fossils, illustrating geological strata.

392a Harris, C., Kumara.—Fossils from tertiary strata, Callaghan's and Kumara Diggings, West Coast, New Zealand.

- 393 Hokitika Local Committee, Hokitika.—Quarts and other ores.
- 393a Johnston, W. G., Hokitika.—Ores from West Coast of New Zealand.
- 394 Kilgour, J., Tyneside Colliery, Brunnerton.—Coal and coke.
- 395 Kaitangata Railway & Coal Co. Ltd., Dunedin.—Coal from Kaitangata mine.
- 396 Lammerlaw Antimony Mining Co., Lawrence.—Antimony ore from the Lammerlaw Ranges.
- 397 Mines Department, Wellington.—Specimens of ores and minerals.
- 398 Morrin, T. and S., & Co., Ltd., Auckland.—Coal, iron ore, limestone, fire-bricks, fire-clay.
- 400 New Zealand Antimony Co. Ltd., Wellington.—Cakes of star antimony, doubles, and raw ore.
- 401 New Zealand Commissioners, Wellington.—Trophy of New Zealand minerals; trophy, representing the total produce of bullion.
- 402 New Zealand Midland Railway Co. Ltd., The, Christchurch.—Coal and minerals.
- 402a New Zealand Scheelite Co., Dunedin.—Five samples of scheelite.
- 403 Queenstown, Borough of.—Specimens of minerals and quartz.
- 404 Reefton Committee, Reefton.—Mineral specimens.
- 405a Te Aroha G. and S. M. Co., Te Aroha.—Specimens of gold and silver-lead ore.
- 406 Waikato Coal and Shipping Co. Ltd., The, Auckland.—Specimen of coal.
- 407 Washbourn & Sons, Para Para, Nelson.—Iron oxide paints prepared from Para Para iron-stone.
- 408 Westport Coal Co. Ltd., The, Dunedin.—Coal, coke, and fire-clay from Coalbrookdale Granite, Wallsend, and Coal Pit Heath Mines. Agents: Balfour, Elliott and Co. Ltd., 5 Queen-st., Melbourne.

INTRODUCTION TO THE FIJIAN COURT.

It is to be hoped that the share, however humble, taken by Fiji in the Centennial International Exhibition will assist to some extent in removing the continued mercantile depression from which its eighty inhabited islands have suffered, more or less, during the past five years, and that the Governorship of Sir J. B. Thurston will be associated, in the history of the colony, with a marked revival of its prosperity. The population in 1886 was 124,746, including 2105 Europeans, 6146 Indian immigrant labourers, 3075 Polynesian immigrant labourers, 832 half castes, and 110,037 Fijians. Following the rule, invariably applicable to the decay of native races in Polynesia when these are brought permanently in contact with colonists of European descent, the tendency of the native population in Fiji is to decrease. Statistics show that deaths among the native population in 1886 were 4908, against only 3991 births. On the other hand, the deaths among the Europeans numbered only 45, as compared with 77 births.

During the past five years the decline in the foreign trade of Fiji, at least in values, has been continuous, and in 1887 the total foreign trade amounted to £169,151, the imports being £188,071, and the exports £281,080.

The following table shows the total foreign trade of Fiji with three important colonies of the Australasian Group in 1887:—

Colony.	Imports.	Exports.	Total.
New South Wales	£92,735	£107,516	£200,252
New Zealand	34,854	85,706	120,560
Victoria	25,954	70,322	96,276

A drawback to a remunerative business in the green fruit trade hitherto has been the want of a subsidised line of steamers to run regularly and more frequently than previously between Fiji and the Australasian ports, with which trade is chiefly carried on in this article. In the absence of this required shipping accommodation, large quantities of tropical fruit often perish while awaiting irregular opportunities of shipment. In 1886 there was under cultivation by European settlers—tea, 305 acres; bananas, 1866 acres; cotton, 95 acres; coffee, 309 acres; cocoa-nuts, 18,128 acres; cinchona, 5 acres; maize, 561 acres; sugar-cane, 10,543 acres; and yams, 365 acres. There were in the colony in the same year 567 horses and mules, 6841 cattle, 6055 sheep, and 5070 Angora goats.

The public debt, on account of loans, amounts to £150,000, apart from advances by the Imperial Government, which reach £114,695, making an aggregate indebtedness of £264,695. The development of the fertile and varied resources of the colony can only be a question of time, as, sooner or later, the attention of capitalists can hardly fail to be practically directed to the vast latent wealth locked up in the soil, which only requires money and enterprise for its realisation.

FIJIAN EXHIBITS.

VI.

Raw and Manufactured Processes and Products.

CLASS 42.—PRODUCTS OF HUNTING, SHOOTING, FISHING, AND SPONTANEOUS PRODUCTS. MACHINES AND INSTRUMENTS CONNECTED THEREWITH.

- 1 Hart, L. H., and Son, Palmer-st., Fitzroy, Melbourne.—Collection of native implements and curios.
2 Rabi Estate.—Copra and coir bristles.

CLASS 43.—AGRICULTURAL PRODUCTS NOT USED FOR FOOD.

- 3 Rabi Estate.—Fibre and matting.

VIII.

Alimentary Products.

CLASS 71.—CONDIMENTS AND STIMULANTS, SUGAR AND CONFECTIONERY.

- 4 Alphu Estate, Suvuni.—Tea.
5 Rewa Sugar Co., Rewa River, Fiji.—Samples of sugar.

INTRODUCTION TO THE SCANDINAVIAN COURT.

THE united kingdoms of Sweden and Norway embrace the entire north-west peninsula of Europe, usually called Scandinavia. Sweden comprises the east half of the peninsula, having an area of 173,974 square miles, and a population in December, 1886, of 4,717,189, the majority of whom are Protestants, and, for the most part, well educated. One-eleventh part of the surface of the country is covered by lakes, and one-half by forests, consisting of pine, birch, and fir, which not only form an important source of pitch and tar manufacture, but also of fuel for the population. Although Sweden has a flat appearance, this prevailing aspect is occasionally relieved by pleasant undulations, rising in the north-west to the Kjolen range of mountains which divides Sweden from Norway. In the south the climate is favourable for the cultivation of oats, wheat, barley, rye, and potatoes. The position of agriculture in the country may be judged by the fact that no less than 2,340,000, or nearly one-half the population, are devoted to that pursuit, about 230,000 being owners of the land they cultivate.

Sweden is rich in mineral products. Iron of superior quality, known as Danenmora, is found in large quantities, and is converted into the finest steel. Gold and silver are obtained in small quantities, while copper, zinc, alum, cobalt, sulphur, coal, nickel, lead, porphyry, and marble are obtained in payable amounts. Upwards of half a million persons are engaged in, or are dependent on, mining, metal works, and manufactures, against 222,291 employed in trade.

The imports and exports of Sweden for 1885 were £18,890,552 and £13,681,729 respectively. The commercial intercourse of the country, as regards exports, is principally with Great Britain; and from Germany imports are most largely received. The staple articles sent to the ports of England are timber, including house-frames. The most important articles next in order exported to the same destination are oats, pig-iron, butter and butterine, iron and steel manufactures, and live animals. From England Sweden takes in return iron (wrought and unwrought), coals, cotton-yarn, and machinery. There has been an increase of 9·5 per cent. in the population in the last decade, notwithstanding a large tide of emigration, as from other parts of Northern Europe, during that period to the United States. Nearly one-half the railway property, and all the telegraphs, with the exception of those in use on private railways, belong to the Government. The estimated public revenue for 1888 is £4,705,388, and the estimated expenditure within that amount.

Norway—united with Sweden under one sovereign early in the present century—is 123,205 square miles in extent, having a population of about 2,000,000. Though separated from Sweden only by a range of mountains, differences of a marked character are noticeable between the leading products of the two countries. While the principal article of export in Sweden is timber, fish takes the lead in the export list of Norway, in which the cod and herring fisheries are the main source of commercial wealth, the total value of the fisheries for 1885 being £1,010,600. After the "harvest of the sea" in the list of exports come timber, wood-pulp (for the manufacture of paper), train oil, cotton and woollen manufactures, butter, lucifer matches, with sulphur, nickel, copper ore, and fish guano. Australia figures in the number of countries to which exports were sent in 1886 to the extent of £164,000, the total to all foreign countries being £5,714,000, compared with imports to the value of £7,509,000. The chief items among the latter are cereals and flour. As in the case of the twin kingdom of Sweden, the largest importer of Norwegian goods is Great Britain, but the highest value in supplies from abroad comes from Germany. In all, about twenty countries, Sweden included, are specified as receiving goods exported by Norway. Her railways belong in part to private companies and in part to the State. The telegraph lines are subject to a similar arrangement. The budget estimate of revenue for 1886-7 was £2,374,449, and of expenditure £2,392,621.

SCANDINAVIAN EXHIBITS.

[The Exhibit under Section I. is transferred to the Fine Art Section of the Catalogue, where it will be found under heading "SCANDINAVIA."]

II.

Education and Instruction—Apparatus and Processes of the Liberal Arts.

CLASS 10.—STATIONERY, BOOKBINDING, PAINTING AND DRAWING MATERIALS.

- 1 Aktiebolag, M., Goteburg, Sweden.—Paper.
2 Barnangens, A., Fabrik, Stockholm, Sweden.—Artists' colours.

- 3 Munkedal Co. Ltd., Uddevalla, Sweden.—Brown wrapping paper.

CLASS 13.—MUSICAL INSTRUMENTS.

- 4 Hals, B., Christiana, Norway.—Pianos and harmoniums.

III.

Furniture and Accessories.

CLASS 16.—FURNITURE.

- 5 Bodafors, Stol and Mobel, Fabrik, Sandsjo, Sweden.—Furniture.

CLASS 20.—CUTLERY.

- 6 Dahlgren, C., Eskilstuna, Sweden.—Cutlery, scissors.

- 7 Eskilstuna Jerumanufaktur, Eskilstuna, Sweden.—Cutlery, table knives, bread ditto, etc., steels.

- 8 Bugstrom, J., Eskilstuna, Sweden.—Cutlery, razors, knives.

- 9 Hedengran and Son, Eskilstuna, Sweden.—Cutlery, pocket cutlery.

CLASS 25.—LEATHERWORK, FANCY ARTICLES, AND BASKETWORK.

- 10 Tangerals, L. A., Christiania.—Brushes.

VI.

Raw and Manufactured Processes and Products.

CLASS 42.—PRODUCTS OF HUNTING, SHOOTING, FISHING, AND SPONTANEOUS PRODUCTS. MACHINES AND INSTRUMENTS CONNECTED THEREWITH.

- 11 Borthen, T. U., Trondhjem, Norway.—Cod liver oil for medicinal purposes, other sorts of cod liver oil.

- 12 Rasmussen, E. F., Aalesund, Norway.—Cod liver oil.

CLASS 44.—CHEMICAL AND PHARMACEUTICAL PRODUCTS.

- 13 Tenggren, C. T., Lofoten, Norway.—Fish powder of Gladus Marshua cod for medical purposes.

VII.

Machinery—Apparatus and Processes used in Mechanical Industries.

CLASS 52.—MACHINE TOOLS.

- 14 Lindstrom, F. E., Eskilstuna, Sweden.—Tools, pincers, etc.

CLASS 59.—CARRIAGES, AND WHEELWRIGHTS' WORK.

- 15 Olsen, T., Fredrickstadt, Norway.—A Norwegian carriage or two-wheeled buggy, complete with fittings.

- 16a Sandberg, C., 19 St. George-st., Westminster, London.—Steel rails and sleepers.

CLASS 63.—APPARATUS AND PROCESSES OF CIVIL ENGINEERING, PUBLIC WORKS, AND ARCHITECTURE.

- 16 Elliot, J., and Co., Gotesburg, Sweden.—Butts and hinges.

- 17 Johansen, A., Christiania, Norway.—Patented locks.

CLASS 64.—NAVIGATION AND LIFE-SAVING.

- 18 Moller, W. C., Drammen, Norway.—Life-belts and life-buoys filled with reindeer hair.

VIII.**Alimentary Products.****CLASS 69.—MEAT AND FISH.**

- 19 Conrad, sen., J., Stavanger, Norway.—Tinned soups, entrées, game, fish, meat.
 20 Gottenburg Preserving Co., Gottenburg, Sweden.—Smoked salmon in oil; fish-balls, both cooked and fried, in wine, etc., etc.
 21 Rasmussen, Emil F., Aalesund, Norway. Exhibit: box of dried Ling Fish, box of dried boneless Ling Fish, box of skin-and-boneless Ling Fish, box of dried skin-and-boneless Cod Fish, box of skin-and-boneless Tusk, and 3 bottles of Cod Liver Oil.
 22 Tenggren, C. T., Lofoten, Norway.—Fish-powder from cod, for fish dishes; powder of roe of cod; prepared liver from cod; caviar, etc.

CLASS 70.—VEGETABLES AND FRUIT.

- 23 Conrad, sen., J., Stavanger, Norway.—Vegetables.

- 24 Gottenburg Preserving Co., Gottenburg, Sweden.—Peas in tins.

CLASS 71.—CONDIMENTS AND STIMULANTS, SUGAR AND CONFECTIONERY.

- 25 Elliot, J., & Co., Göteborg, Sweden.—Conсервы.

CLASS 72.—FERMENTED AND DISTILLED DRINKS.

- 26 Cederlund & Soner, J., Stockholm, Sweden.—Swedish punch.

- 27 Dass, P. Ltz., Drammen, Norway.—Bottled beer.

- 28 Olbryggeri, F., Christiana, Norway.—Bottled beer.

- 29 Wallenius, O., and Co., Gottenburg, Sweden.—Swedish punch, distilled from brandy, sugar, and arrack.

IX.**Sanitation, Medicine, Hygiene, and Public Relief.****CLASS 74.—APPARATUS AND PROCESSES OF HEATING AND LIGHTING.**

- 30 Elliott, J., and Co., Göteborg, Sweden.—Safety matches, etc.
 30a Soderblom Foundry Co., Eskilstuna.—Patent coke stoves.

XI.**Horticulture.****CLASS 76.—CONSERVATORIES AND HORTICULTURAL APPARATUS.**

- 31 Carloson, K., Eskilstuna, Sweden.—Rakes.

CLASS 80.—SEEDS AND SAPLINGS OF FOREST TREES.

- 32 Henriksson, J., Mellerud, Sweden.—Seeds of pine.

XII.**Mining Industries—Machinery and Products.****CLASS 83.—MINING AND METALLURGY.**

- 33 Agar, S., Göteborg, Sweden.—Boot protectors.
 34 Aktiebolag, U., Uddeholms, Sweden.—Horse-shoe nails and screws
 35 Hansen and Raines, Syckeabruk, Sweden.—Nails.

- 36 Hartwig, A., Göteborg, Sweden.—Patent horse-shoes.

- 37 Hults, Bruks, Intressenter Aby, Sweden.—Axes.

- 38 Lundstrom, J. O., Charlottenburg, Sweden.—Nails and spikes.

- 39 Styckebruk, A. F., Finspang, Sweden.—Nails.

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INTRODUCTION TO THE BRITISH COURT.

THE Imperial Conference recently held in London will, beyond question, be cited by the future historian of Australia as having inaugurated an epoch of marked improvement in the political relations between the colonies and the parent country. Previous to that event, it seemed extremely difficult to win the serious attention of the Downing-street authorities, even to the most succinct and lucid statement of colonial grievances ; but by the earnest and convincing arguments of the colonial statesmen who lately conferred with the Imperial Government at Westminster, the official inertness which had so long given cause for complaint in Australia was effectually removed. A generous solicitude for the safeguarding of the colonies against foreign invasion is now, on the contrary, apparent at the Colonial Office, accompanied with an eagerness to comprehend colonial wants and a promptitude in responding to them which open a new and interesting chapter in our relations with the central power. The increased intelligence and zeal with which the department presided over by Lord Knutsford performs its administrative functions have had the effect of attracting to Australia, beyond all previous experience, the favourable notice of capitalists and traders. The large influx of British money which has poured into this country for investment during the past eighteen months is due, in no small degree, to the published reports of the Conference in the United Kingdom ; and we are justified in believing that the splendid display of exhibits in the British Court may be partially ascribed to the same cause. Clear proof is thus furnished that both the political and commercial ties which bind us to the mother country continue to strengthen. At the same time, the immensely valuable collection of pictures, in most instances lent by British noblemen and gentlemen at considerable risk and without the smallest hope or desire of compensation, distinctly testifies to the warm and unselfish interest of the contributors in the aesthetic culture of the colonies.

POPULATION AND TRADE.—Despite the unceasing tide of emigration from the United Kingdom, the estimated total number of inhabitants in June, 1887, was 37,091,564. The increase in the last decade is equivalent to an average daily addition of 930 persons, the decennial growth being 10·75 per cent., which is a considerably higher rate than in any of the three preceding decades. The one dark spot in the enumeration is Ireland, which has decreased to the extent of 398,941, or at the rate of 7·54 per cent. in ten years.

An analysis of the economic position of the country inevitably leads to the conclusion that the resources of that section of the population which is dependent on rent from agricultural and pastoral lands for an income, and tenants who look for subsistence to the raising of farm produce, have suffered serious diminution. On the other hand, while the crisis threatens a few branches of manufacture with extinction, the demand for products in other departments shows signs of recovery, although the rate of profits all round tends to a still lower level. The result is that a larger volume of trade is required to earn the incomes formerly derivable from higher rates of profit. The total imports for 1887 were £12,553,920 over those of 1886, and the total exports £11,838,021 above those of the previous year. The favourable change in the monthly Board of Trade returns with which the year 1888 opened, has been fairly maintained, and not the least gratifying feature is that the improvement is owing, in some measure, to an upward movement in colonial demand. Commenting on these returns for a recent month, the *Economist* remarks :—"The expansion in our colonial trade (as compared with our trade with foreign countries) forms a pleasant contrast to 1887, when it remained almost stationary, so far as values are concerned. As regards the imports, nearly £2,500,000 out of the total increase are due to Australasia, and arise mainly from our increased purchases of wool; minor articles which help to swell the total being tin, copper, and tallow. The increase in the exports is also chiefly due to augmented trade with Australasia, our total exports to those colonies in the quarter being valued at £5,718,000, as against £4,563,000, a gain of £1,155,000, or over 25 per cent." The total increase of exports to the British possessions in 1887 amounted to nearly £9,000,000, compared with 1886. During the past twelve months values in tin, spelter, copper, and lead have risen—chiefly, however, as the result of speculation; but iron, on the whole, has fallen.

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The jute trade, which exhibited animation during last year, has since relapsed into a sluggish condition. Woollen manufactures have enjoyed a fair share of prosperity, and although prices are barely remunerative, they are steady. The British market for raw and manufactured cotton has been subject to a chequered experience. The margin between the cost of the raw material and the price of yarn has improved, but the competition of India is so close in coarse cloths that English makers are compelled to direct attention more exclusively to fine "counts." The demand from China and Japan has materially increased, 35,354,300 lbs. of cotton having been consigned to these countries in 1887, against only 26,924,200 lbs. in 1886.

It is not unworthy of notice that the depression of trade which began in England in 1874, and has not yet entirely disappeared, was for some years practically confined to machine-using countries, whose population may be roughly estimated at 300,000,000, but during the last five years it has extended to the hand-labour countries, in which about 1,000,000,000 have to be provided for. The depression has been continuous and universal, alike in countries following a protection or freetrade, a warlike or a pacific policy, and is unquestionably attributable in the greatest degree to the extensive and almost abnormally rapid development of the commercial system everywhere by telegraphy, railway communication, and the general cheapening of transport and distribution, an enormous impulse being thus given to production. There are now more than 300,000 miles of railway in the world—a length sufficient to put an iron girdle ten times round the earth, and this advantage is equivalent to giving every inhabitant of the globe an increase of one horse-power for twelve days in the year. In 1865 if a bale of goods had to be transported 1000 miles by rail 58 per cent. of its cost at the factory was swallowed up by transport; now only 20 per cent., as a rule, is so consumed. The cost of transport by sea is greatly reduced by economising fuel and labour. A machine which does the work of ten men has displaced nine labourers, though the wage of the machine-worker has been considerably raised. This displacement of labour, concurrently with the reduction of cost in the production and transport of articles of consumption, finds ample illustration in the boot and shoe, agricultural implement, corn-milling, iron-working, cotton, and other trades. In 1874 the speed of spindles was 4000 revolutions per minute; but in 1887 it had increased, through the agency of science, to 10,000 revolutions. This vastly augmented production proves to be altogether in excess of the growth of the world's population and requirements. The extended use of machinery out of proportion to market necessities has been followed by a glut of production and the displacement of labour, which are the two proximate causes of the depression from which the United Kingdom has so long suffered in common with other industrial communities. It is plain, accordingly, that the only cure for the evil is the gradual overtaking of production by population and demand. It has already been pointed out that there are signs of the cloud lifting, but it would not be surprising if there should be a few more relapses before the dawn of a genuine and lasting prosperity.

The question of German competition, as affecting the future export business of the United Kingdom with her dependencies and foreign countries, is too momentous to be passed over in this connection. It is when the exports of the two countries are compared that the rising position of Germany as an exporting country prominently arrests attention. From the year 1876 the steady upward movement in the ratio of German exports is distinctly apparent. In that year the increase was 2·1 per cent., against a decrease of 10·2 per cent. in exports from the United Kingdom. In 1877 the figures show an increase of 10·7 per cent. in the one case, against a decrease of 11 per cent. in the other; in 1878, 15·7 per cent. increase against 13·7 per cent. decrease; in 1879, 11·3 per cent. increase against 9·8 per cent. decrease; in 1880 an increase of 16 per cent. against a decrease of 0·2 per cent.; in 1881, an increase of 19·3 per cent. in German exports against the smaller increase of 4·8 per cent. in those of the United Kingdom; in 1882, an increase of 27·9 per cent. against the smaller increase of 8·1 per cent.; in 1883, an increase of 31·2 per cent. against 7·3 per cent. increase; in 1884, an increase of 28·4 per cent. against an increase of only 4·3 per cent.; in 1885, an increase of 16·3 per cent. against a decrease of 4·6 per cent.; and in 1886, an increase of 19·6 per cent. in German against a decrease of 4·9 per cent. in United Kingdom exports.

The value of German exported manufactured goods rose from £42,090,000 in 1875 to £108,178,000 in 1886, or 157 per cent. In 1875 these formed only 36 per cent. of her total exports; but in 1886, 75 per cent. Her net exports of silks rose, between 1875-86, 884 per cent.; woollens, 296 per cent.; cottons, 302 per cent.; machinery, 260 per cent.; glass, 264 per cent.; paper, 322 per cent.; spirits, 258 per cent.; beer, 466 per cent.; pig iron, from a net import of 284,000 tons, rose to a net export of 858,080 tons; and sugar, from a net import of 247 tons to a net export of 565,247 tons, due to improvement in the manufacture of the article having converted a "drawback" into a considerable "bounty." Thus, when the fall in imports is taken in connection with the rise in exports, conclusive proof is afforded that German manufacturers were not only able to overtake home demands more fully than in former years, but that they had a large surplus, which enabled them to compete successfully with older manufacturing countries in foreign markets.

The following table clearly indicates—(1) that, with the exception of Russia, France, Belgium, and the United States, the leading commercial nations have received German produce between 1880-5 in larger quantities than ever before; and (2) that where a decrease in exports is noted, it is smaller than in the case of British exports, with the sole exception of the United States, in which country the United Kingdom appears to have lost ground in a smaller ratio than Germany; (3) the former country does a more largely increasing business with Austria than the latter has done in the period. But this is far more than counterbalanced by the strides made by the German export trade in Spain, Portugal, and Italy, as compared with the exports of the United Kingdom to these countries. (Increase, +; decrease, -.)

Countries to which Exported.	Increase or Decrease in the Value of Exports		
	From the Zollverein, 1880-5.	From the United Kingdom (Brit. Prod.), 1880-5.	
		Per cent.	Per cent.
Hanse Towns	+ 7·3	—	—
Russia	- 29·3	- 44·4	
Sweden and Norway	+ 13·8	+ 2·3	
Denmark	+ 6·0	- 8·9	
Holland	+ 1·4	- 11·3	
Belgium	- 10·1	+ 24·7	
United Kingdom	+ 3·5	—	
Germany	—	- 7·5	
France	- 11·9	- 12·6	
Spain and Portugal	+ 72·4	- 7·1	
Austria	+ 1·2	+ 52·6	
Italy	+ 72·9	+ 12·1	
United States	- 17·1	- 13·1	

Passing to other countries in Europe, the imports into them from Germany, between 1880-5, declined 1·2 per cent., against 11·5 per cent. in imports from the United Kingdom. To Asia, imports from the Zollverein increased 26·5 per cent., while those from the United Kingdom decreased 1·1 per cent. To Africa, imports from Germany rose 28·8 per cent., and those from the United Kingdom fell 27 per cent. To Australasia, imports from the former increased no less than 346·1 per cent., while from the latter the rate of increase was only 32·1 per cent. To America, outside the United States, German imports expanded 64·3 per cent., against an increase in those of her competitor of only 5·8 per cent. The exports of the Zollverein to countries outside Europe (exclusive of the United States) increased from £2,954,000 in 1880 to £4,528,000 in 1885. This increase is, of course, *absolutely* very much smaller than the increase of the exports to the same countries from the United Kingdom, which grew between 1880 and 1886 from £109,220,000 to £112,235,000. It is, *relatively*, very considerable, however, since it amounts to 53 per cent., as compared with less than 3 per cent. in the United Kingdom. If we had information which would enable us to trace the millions' worth of goods annually exported through the Hanse Towns to their ultimate destination abroad, the actual increase in this branch of the German export trade would be found to be larger still. The point to be mainly kept in view, as supported by the preceding statements, is that the increase in the imports from Germany into Spain, Portugal, Roumania, and Italy has been phenomenal, and it has been equally so into countries beyond Europe, including Canada, Uruguay, the Argentine Republic, Chili, British India, Japan, Australasia, Western Africa, and the Cape. German successes have been most marked in countries which have not yet succeeded in supplying their own home wants, although their industries are protected. This is, doubtless, principally owing to skilled labour being still cheaper, as a whole, in Germany than in the other industrial countries of Europe. In proportion to the growth of German competition will be the severity of her struggle for industrial supremacy with the United Kingdom.

On the other hand, an examination of the figures shows that England, during the last eight years, has *relatively*, and with rare exceptions—as in the Argentine Confederation, Uruguay, the United States, and India—receded nearly everywhere as an exporter of manufactures compared with Germany, even though, in many instances, the total value of the imports to foreign countries may have exhibited an increase. Happily, some of the ground lost since 1875 has recently been recovered; and, when the improved aspect of the Board of Trade returns for some months past is taken into account, there is reason to hope that British mercantile enterprise has taken a fresh and encouraging departure. It

would be erroneous to say that British losses are solely attributable to German competition. In some departments Belgium, the United States, and even Italy, are pressing the United Kingdom hard in the foreign markets which have been enumerated above. Nor is England the only manufacturing country which has suffered from the competition of Continental rivals. The export trade of France seems to have been adversely affected in nearly all parts of the world. On the other hand, so far as ample capital, extensive and efficient mechanical appliances, and energetic commercial enterprise are concerned, the United Kingdom still immeasurably outdistances all industrial and mercantile competitors in her facilities for maintaining the lead, as hitherto, in the export of manufactures. At the same time, it can no longer be disputed that, sooner or later, Germany must be reckoned with as a formidable rival.

It goes without saying that no nation could make the striking advance in commerce which Germany has achieved by mere shrewdness on the part of her manufacturers and merchants. It must be admitted that, whatever charge may have been brought against some of them in the past of surreptitiously putting high-class British trade-marks on inferior goods, she has laboured long and patiently to improve her manufactures, and her perseverance and enterprise have been recognised in markets abroad. In many of its departments the products of German industry need fear no comparison with foreign products, and frequently they surpass them, not only in price, but also in quality. The advantages of universal education, the many facilities enjoyed for acquiring a technical knowledge of manufacturing processes, and, above all, the low scale of wages paid to German workpeople, are bearing fruit. The heads of German manufactories are generally in the possession of technical knowledge. The German manufacturer, moreover, is credited with adapting himself more readily to the tastes and requirements of his possible customers than does his English competitor. Chambers of Commerce and commercial societies are ever active in Germany in spreading information likely to prove of service to merchants and manufacturers. Permanent Exhibitions have been established at numerous centres of industry; and in 1885 a 'Floating Exhibition,' which visited Portugal, Morocco, and the chief ports of the Levant, succeeded in establishing business relations in all directions. The German's knowledge of foreign languages, taught efficiently in every secondary school, gives him an undoubted advantage over the bulk of men engaged in business of other nationalities. On the other hand, where new lines of mail steamers have been subsidised by the German Government, German influence will be increased indefinitely.

Mr. Giffen, the eminent English statistician, when dealing with this subject in the February number of the *Board of Trade Journal*, appears to have overlooked the real significance of the facts to which attention has been directed. There is no question of the United Kingdom being far in advance of Germany in the absolute quantity and value of her exports. It is changing ratios of export progress, as between the two countries, which is the main consideration; and this is not alluded to here in any apprehensive spirit, but only in the sense of sounding a timely note of warning to the manufacturers and merchants of the parent country of these colonies, to which the latter have so long been accustomed to look as the natural source of their imported supplies. The sterling capacity of the British merchant, and the skilled enterprise of the British manufacturer, are proverbial all over the world, and, we cannot doubt, are quite equal to meeting the exigencies of the situation which has been described.

AGRICULTURE, MINERALS, AND FISHERIES.—The soil of the United Kingdom has fewer owners than that of any other European country. The total number of acres accounted for in the official returns is 72,119,882, being 5,515,304 acres less than the whole area of Great Britain and Ireland; and the number of landed proprietors in Great Britain and Ireland, exclusive of the metropolis, is as follows:—

—		Number of Owners below an Acre.	Number of Owners above an Acre.	Total Number of Owners.
England and Wales	703,289	269,547	972,836	
Scotland	113,005	19,225	132,230	
Ireland	86,114	32,614	68,728	
Great Britain and Ireland ..	852,408	321,386	1,173,794	

In England the proportion of productive area to the whole is 80 per cent.; in Wales, 60 per cent.; in Scotland, only 28·8; in Ireland, 74; while the average of the whole is 64·8 per cent. In Great Britain cereal crops occupy a fourth of the productive area; in Wales, one-sixth; and in Ireland, a little more than one-ninth. In the latter island permanent pasture occupies two-thirds of the productive area. The land under cereal crops in Great Britain in 1887 was

114,200 acres less than in 1886, and in Ireland it was 28,503 acres less than in that year. Over the United Kingdom the cultivated area has decreased 100,000 acres within the last two years.

The number of live stock in the country in 1887 comprised 1,936,925 horses, 10,639,960 cattle, 29,401,750 sheep, and 3,720,957 pigs. But to how large an extent the country is dependent on foreign sources for agricultural supplies is shown by the fact that during the past eight years the total value of food imports has ranged from £112,919,287 to about £150,000,000 per annum.

The total value of 14,110,013 tons of iron raised from the mines in the United Kingdom in 1886 was £3,513,525, against 16,692,802 tons, valued at £6,746,668 in 1877. The amount of coal produced, although considerably greater than in the year last mentioned, shows a marked decline in value. In 1886 the quantity raised was 157,518,482 tons, valued at £38,145,930, as compared with 134,610,763 tons, valued at £47,113,767, in 1877. The total mineral produce for the former year, including non-metallic minerals, was £55,010,241, which shows a decrease of about £6,000,000, as compared with the year immediately preceding.

An official report on sea fisheries gives the value of the fish landed in England in 1887 at £4,104,445; Scotland, £1,396,963; and Ireland (1886), £643,000. The catching of 600,000 tons of fish in 1886 employed 125,764 men, and 32,189 boats.

PUBLIC FINANCE AND EMIGRATION.—The Parliamentary return of the public income and expenditure of the United Kingdom for the year ended 31st March, 1888, shows that the total income was £89,802,253, and the total expenditure £87,423,645, leaving an excess of income over expenditure of £2,378,608. At the corresponding period in 1887 the income was £90,772,758, and the expenditure £89,996,752. With only three exceptions, there has been a succession of surpluses over budget estimates for the last ten years. The national debt, which exactly 200 years ago only amounted to £664,263, now stands at about £700,000,000. The event of the year in connection with the administration of the Imperial Treasury is the successful scheme of the Chancellor of the Exchequer to convert the 3 per cent. consols into stock bearing $\frac{3}{4}$ per cent. from April, 1889. This rate will continue for fourteen years, when the interest will be further reduced to $\frac{1}{2}$ per cent. per annum. The new stock is guaranteed against redemption for a period of thirty-five years. A treasury minute of 25th May, 1887, proposes by a permanent or "fixed charge" of £26,000,000 to redeem the funded debt in about fifty-two years, and the whole of the national debt in about fifty-six years. The total debt amounts to only about £106,400,000 more than the gross annual value of property and profits assessed to income tax, and £117,750,000 more than the total value of British imports and exports for 1886.

The total number of emigrants in 1887 was 896,494, of whom 281,487 were of British and Irish origin only, whereas in 1886 the total emigration was 330,801, so that there has been an increase of 65,693. These figures show that the increase has proceeded at rather a diminished rate, namely, 20 per cent.; the increase in 1886, as against 1885, being 25 per cent. Notwithstanding this, the number of British and Irish emigrants in 1887 is the largest yet reached since the nationality of emigrants has been distinguished, with the exception of 1883, when the number was 320,118. By far the greater number of emigrants still select the United States as their country of destination, the proportion going thither of the total number of British and Irish emigrants being 72 per cent. in 1887, as against 66 per cent. in 1886; and 12 per cent. went to the Australasian colonies, as against 18 per cent. in the previous year; while 11 per cent. proceeded to British North America, the proportion being unchanged since 1886, although the number is higher by 7280. During the thirty-five years from 1853 to 1887, neglecting the return current of immigration, of which for the early part of this period there is no account, nearly 4,250,000 of persons of British and Irish origin have left the United Kingdom for the United States. The decrease in emigration to Australia is attributed to the reports which have reached England of the overstocking of the labour market. Mr. Giffen says the general increase in emigration, especially to the United States, may no doubt be considered as an additional sign of the revival of trade.

RAILWAYS, POST, AND TELEGRAPHS.—At the close of 1886 the length of railway lines open for traffic was 19,332 miles, increasing at the rate of about 250 miles annually, and representing a total share and loan capital of £828,344,254. The number of passengers who travelled in that year, exclusive of season ticketholders, was 725,584,390, and the total receipts from passengers, goods, and miscellaneous sources reached £69,591,953. The working expenditure amounted to £36,518,247 on all the lines, being 52 per cent. of the total receipts.

The number of letters which passed through the post-offices of the United Kingdom in 1887 was 1,460,000,000, being at the rate of 40 per head of the population. There were forwarded, in addition, 180,000,000 post cards, 369,000,000 book packets, 151,000,000 newspapers, and 33,000,000 parcels. At the end of 1886 there were 8351 post-office savings banks, with 3,731,421 accounts open (against 320,000 in 1863), the deposits during the year amounting to £15,696,852, against £15,034,694 in 1885, and the amount standing to the credit of all open accounts in 1886 was £50,874,330, against £47,697,838 in 1885.

In April, 1887, there were 20,895 miles of telegraph line, and 173,539 miles of wire in operation, the gross revenue being £1,855,686, and the working expenses £1,939,768. The accounts for the year thus show a deficiency of £84,082. The total number of messages sent in the United Kingdom for the year ending March, 1887, was 50,243,639, and the total number of telegraphs offices 6621. The telegraph department had 28 telephone exchanges open in various country towns, with 1331 subscribers. In London alone there were over 46 miles of pneumatic tubing connecting the central office with branches. The gross revenue of the Post Office for the year mentioned was £10,715,978, and the expenditure £8,201,343, leaving a net revenue of £2,514,635, being a decrease of £194,247 on the previous year.

TO LADIES ! See MYRA'S JOURNAL

BRITISH EXHIBITS:

[All Exhibits under Section I. are transferred to the Fine Arts Section of the Catalogue, where they will be found under heading "GREAT BRITAIN."]

II.

Education and Instruction, Apparatus and Processes of the Liberal Arts.

Class 6.—Education of Children, Primary Instruction, Instruction of Adults.

- 1 Blackie & Son, Glasgow.—Series of text-books for primary instruction.
- 2 Burns & Oates Ltd., 28 Orchard-st., London.—Educational books for children.
- 3 Curwen, J., & Sons, 8 and 4 Warwick-lane, London.—Educational music charts; music, &c.
- 4 Griffith, Farran, Okeden & Welsh, St. Paul's Churchyard, London.—Educational books.
- 5 Johnston, A., & Co., 6 Paternoster-buildings, London.—Educational and geographical publications.
- 6 Myers, A. N., & Co., 16 Berners-st., London.—Kindergarten and other educational appliances and illustrations.
- 7 Sunday-school Union, 56 Old Bailey, London.—Reward books for Sunday scholars, and teachers' manuals.

Class 7.—Organisation and Appliances for Secondary Instruction.

- 8 Augener & Co., 86 Newgate-st., London, E.C.—Printed music, in bound volumes, and also in sheet form, &c. Agents: W. H. Glen & Co., 21 & 23 Collins-st. E., Melbourne.
- 9 Blackie & Son, 17 Stanhope-st., Glasgow.—Text-books for secondary instruction.

Class 8.—Organisation, Methods, and Appliances for Superior Instruction.

- 10 Masse, J. F. O., London High School of Commerce, North Finchley, Middlesex.—Three paradigms on the structure of the French language.
- 11 Pitman, E., Phonetic Institute, Bath.—Phonographic books, charts, &c., and specimens of short-hand writing.
- 12 Sutton & Sons, Royal Seed Establishment, Reading.—Educational cabinet of natural grasses and agricultural seeds.

Class 9.—Printing, Books.

- 13 Baker & Symes, 60 Ludgate-hill, London.—Printing and books.
- 14 Blackie & Son, 17 Stanhope-st., Glasgow.—Specimens of letterpress and woodcut, copper-plate, and other printing and books.

- 15 "British Trade Journal," 113 Cannon-st., London.—A monthly review of British trade.
- 16 "British Journal of Commerce," Norfolk House, Norfolk-street, Strand, London.—Lithographic portraits.
- 17 "Builder," The, 40 Catherine-st., London.—Framed illustration-plates from the "Builder." Agents: Harry Dix & Co., 65 William-st., Melbourne.
- 18 Burns & Oates, 28 Orchard-st., London.—Printing specimens and books.
- 19 Cassell & Co. Ltd., La Belle Sauvage, Ludgate-hill, London.—Books and periodicals.
- 20 Chambers, W. & R., 47 Paternoster-row, London.—Books and periodicals.
- 21 Enoch & Sons, 14 Great Marlborough-st., London.—Printed music. Agents: W. H. Glen & Co., 21 & 23 Collins-st. East, Melbourne.
- 22 Eyre & Spottiswoode, Great New-st., London.—Bibles and prayer books, church services and other books.
- 23 Griffith, Farran, Okeden & Welsh, St. Paul's Churchyard, London.—Books and printing.
- 24 Hamilton, Hills & Co., 22 Paternoster-row, London.—Christmas, birthday, and other cards.
- 25 International Publishing Co. Ltd., Gracechurch-st., London.—Goods connected with publishing.
- 26 Low, Sampson, Marston, Searle & Rivington, Fetter-lane, London.—Books.
- 27 Macmillan & Co., Bedford-st., Covent Garden, London.—Books.
- 28 "Mark Lane Express," "Myra's Journal," and other British publications. Agents: Harry Dix & Co., 65 William-st., Melb.
- 29 Nutt, D., 270 Strand, London.—Exhibit.
- 30 Oliphant, Anderson & Perrier, 24 St. Giles-st., Edinburgh.—Books.
- 31 Partridge, S. W. R., & Co., 9 Paternoster-row, London.—Reward cards and coloured Scripture texts.
- 32 Religious Tract Society, 56 Paternoster-row, London.—Printed books.
- 33 Roberts, T. H., 42 Essex-st., London.—"Illustrated Family Novelist," "Illustrated Bits," "Fireside Novelist."
- 34 Sunday-school Union, 56 Old Bailey, London.—Various Sunday-school requisites.

LADIES' JOURNAL IN THE WORLD.

PARIS FASHIONS. ENGLISH LETTERPRESS.

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MELBOURNE CENTENNIAL INTERNATIONAL EXHIBITION.

- 35 Sutton & Son.** Royal Seed Establishment, Reading.—Books on grasses, culture of vegetables and flowers, &c.
- 36 Thomas & Sons,** 88 Coleman-st., London.—Account books.
- 37 Trübner & Co.** Ludgate Hill, London.—Books on Oriental religions, languages, &c., and on travel and philosophy.
- Class 10.—Stationery, Bookbinding, Painting, and Drawing Material.**
- 38 Accordion Pleating Manufacturing Co.** 228 Euston-road, London.—Lamp and candle shades.
- 39 Arundel & Marshall.** Penn-street Works, Hoxton, London, N., PLAIN AND FANCY BOX AND PATTERN CARD MANUFACTURERS.—Cloth-covered Fixture Boxes for Drapers, Stationers, &c. Specialty in Folding and Parcels Post Boxes of all descriptions.
- 40 Avery, W. & T.** Digbeth, Birmingham.—Letter and parcel post scales.
- 41 Baddeley & Reynolds.** 19 and 20 Old Bailey, London.—Copying Presses. Copper-plate Engraving. Die Sinking. Embossing. Embossing Presses. Endorsing Machines. Illuminating. Numbering Machines. Perforating Machines. Rubber Stamp-making Plant.
- 42 Blackie & Son,** 17 Stanhope-street, Glasgow, —Various styles of bookbinding in morocco, Russian calf, &c.
- 43 Bond, J.**, daughter of the late (now J. Hickson), 75 Southgate-road, London.—Marking inks.
- 44 Bongers de Rath & Co.**, 4 Newgate-st., London.—Artistic and printing colours.
- 45 Bossett, R.**, 13 Hanley-road, London.—Artistic and fancy stationery.
- 46 Burns & Oates Ltd.**, 28 Orchard-street, London, W., and 9 Barclay-street, New York, Catholic Publishers, English and Foreign Booksellers, Church Furnishers and Statuaries, School Stationers and general Exporters.—Stationery, &c.
- 47 Christian, J.**, 46 City-road, London.—Henry Bond's original oak-tree marking ink.
- 48 Cohen, B. S.**, 24 Great Prescott-st., Minories, London.—Pencils and pencil sharpeners.
- 49 Cohen, J.**, Harley-st., Bow, London.—Copying-ink pencils.
- 50 Cooper & Co.**, 5, 6, and 7 Shoe-lane, London.—Writing inks, pens, sealing wax, marking ink, &c. Australian office: 13 Phoenix-chambers, Market-st., Melbourne.
- 51 Dennison Manufacturing Co.**, 5, 6, and 7 Shoe-lane, London.—Direction, merchandise, and other tags, gummed labels, copying pads, seals, &c. Australian office: 13 Phoenix-chambers, Market-st., Melbourne.
- 52 Evans, T. & Son Ltd.**, Samston, Cambridgeshire.—Parchment.
- 53 Hyre & Spottiswoode,** Great New-st., London.—Stationery sundries.
- 54 Field, J. J.**, chemist, inventor, and manufacturer of the non-corrosive writing and copying inks, gums, clenches, etc., 25 Helmet-row, Old-st., London, E.C.—Exhibit. Represented by William Detmold, 8 Flinders-lane East.
- 55 Ford, Thomas B.**, Snakeley Mill, Loudwater, High Wycombe, White and Coloured Blotting Paper Manufacturer. Exhibit.—White and Coloured Blotting Paper of the best quality. Gold Medal awarded by the New Zealand International Exhibition, 1882. Highest Honours, First Order of Merit, by the Adelaide Jubilee International Exhibition, 1887, as against all competitors. Agent: Mr. A. S. Manders, 30 Collins-street East, Melbourne.
- 56 General Apparatus Co. Ltd.**, 16 and 18 Queen Victoria-st., London.—The amateur lithographer, and other copying apparatus.
- 57 Gillott, J. & Sons,** Birmingham.—Steel pens (*see page 9*).
- 58 Green & Seaton,** 3 East Mount-st., Mile End, London.—Copying-ink pencils, and pens.
- 59 Hardtmuth, L. & C. F.**, 2 Long-lane, Smithfield, London.—Pencils of all kinds and sizes.
- 60 Henry, E. J., & Co.**, Bermondsey Paper Works, London.—Paper bags.
- 61 Hodgson, J.**, 17 Little Trinity-lane, London.—“Burmese ivory” note paper, envelopes, and other stationery.
- 62 Jones, S., & Co.**, 56 Carter-lane, St. Paul's, London.—Surface and gummed paper.
- 63 Lowthime, D. A.**, 17 Lamb's Conduit-st., London, W.C., Wholesale Manufacturer of Sketch Books, Drawing Books and Blocks, Scrap Albums, Stamp Albums, News-cutting Books, Blotting Books, Stationery Boxes, Portrait Frames and Screens, Opal Slates, Portfolios, and Fancy Leather and Plush Goods, &c.
- In this case are a few samples of goods taken without selection from ordinary stock. They are not of that inferior class known as “manufactured for export,” but are the same as supplied to the best London shops.
- 64 Macniven & Cameron,** 23 Blair-st., Edinburgh, proprietors of the renowned “Waverley” Series of Steel Pens.
- Their Pens have been recommended by over 3000 British, Indian, and Colonial newspapers to their readers, and have inspired the world-known lines:—
*They come as a boon and a blessing to men—
The Pickwick, the Owl, and the Waverley Pen.*
- Macniven & Cameron's series of Pens are suitable for all writers, and comprise pens with turned up, turned down, and oblique points. They beg to draw attention to their latest efforts in perfecting writing instruments.

THE “FLYING DUTCHMAN” PEN.



With turned-up point, for fine and easy hand, capable of writing 300 words with one dip of ink.

THE “FLYING J” PEN.



A “J” Pen capable of writing 200 words with one dip of ink.

“They are a treasure.”—Standard.

- 65 Mansell, J.**, Red Lion-square, London.—Lithographic printing paper, table decorations, &c.

Gillott, Joseph, & Sons, Victoria Works, Graham-st, Birmingham.—Steel pens.

Trade

Mark.

This Exhibit is composed of a selection of :—

ORDINARY WRITING PENS,
LITHOGRAPHIC PENS,
DRAWING PENS, and
PIERCED and COLOURED ORNAMENTAL PENS.

All these pens are made of steel.

Although the last-mentioned Pens are ornamental only, they exhibit some of the most important processes in the Manufacture of the Pens of commerce. The beautiful tints observable on some of these Pens are all obtained by the application of heat simply, no colouring matter being used. The finishing process of colouring applied to pens of utility, as well as the processes of "piercing" and "grinding," are here shown to perfection.

The Firm of Messrs. Gillott has been established more than half a century, and is made the object

of the following observations by the Author of "British Manufacturing Industries":—

"The first great impulse given to the trade of Penmaking was due to the late Mr. Joseph Gillott. At the time Mr. Gillott commenced operations, much of the beautiful machinery now in use had yet to be invented, and was afterwards invented and perfected by himself. There was no such thing as the 'Slip' Pen, which now constitutes the staple of the trade—the thin piece of metal 'raised' from the flat. Mr. Gillott adapted the press to the making of Pens. He saw that this would enable him to dispense with most of the slow and laborious operations of Penmaking; that it would cut out the 'blanks,' slit them, bend the metal, stamp the maker's name, and thus by mechanical means render production at once rapid and certain. The



metal had to be prepared by rolling 'pickling,' and tempering for the action of the press. Then special dies had to be made for each size of Pen, and for each operation of stamping to which the 'blanks' had to be submitted. Presses of improved construction—quick, light, easily worked, and yet firm enough to strike a sharp, heavy blow—had to be made. And when these difficulties were overcome, there remained others not less formidable—such as tempering the metal after it had left the press; rendering the newly-made Pens flexible, so as to write easily; cleaning and polishing them without injuring their fineness; and coating them with some kind of varnish, in order to protect them from rust. This was the work Mr. Gillott set himself to do; and with much ingenuity and unflagging perseverance he accomplished it. By degrees the press was adapted to the cutting, slitting, bending,

and marking processes; machinery was devised for cleaning and polishing the Pens; and experiments were made with the different qualities of Steel, a various ways of preparing it for use. At last Mr. Gillott attained the degree of excellence which has become inseparably associated with his name; an the trade ultimately reached the importance, perfection, and extent which now characterise it. In this way the Steel Pen, unknown a generation since, save to the curious, became a familiar weapon throughout the world, 'from the cabinets of Princes to the hut of the Australian Bushman.'

At the International Exhibition, Paris, 1878, the Gold Medal was awarded to Messrs. Joseph Gillott and Sons for their exhibit of Steel Pens.

H. B. HARDT, Representative.

- USE STEVENS' OINTMENT.**
- 66 Mitchell, J. & W., Bordeley Paper Works, Birmingham.—Manufacturers of Tin Foil Paper, Plain, Embossed, and Duplex Coloured and Foil Chromo Papers for Colour Printing; Surface, Enamelled, and Flint Papers for Printing, Box Making, Wrapping, &c.; Paste Boards and Cards, Plain, Enamelled, and Surface Coloured, &c.**
- 67 Mordan, F., & Co., patentees and manufacturers of gold pens, writing, copying, and ruling inks, City of London marking ink, etc., Albion Works, 328 City-road, London, E.C., Represented by William Detmold, 8 Flinders-lane East.**
- 68 Morgan, W., 1 Great Winchester-st., London.—Drawing and illuminating material.**
- 69 Morris & Griffin, Cerea Works, Wolverhampton.—Inks.**
- 70 O'Neill, T. H., 18 Belgrave West, Newcastle-on-Tyne.—Copying presses, sealing wax, pencils, &c.**
- 71 Penman, J., & Co., Rutherglen, Scotland.—Inks and gum.**
- 72 Pike, W. H., 18 Egypt-st., Liverpool.—Indelible and copying-ink pencils.**
- 73 Previte & Greig, 2 Crosby-square, London.—Writing slates.**
- 74 Robinson, J., Holloway, London.—Inks, gums, stains.**
- 75 Smith & McLaurin, Millikin Park, Scotland.—Surface, chromo, and enamel papers, cards and pasteboards, embossed and fancy papers.**
- 76 Spalding & Hodge, 34 Cannon-st., London.—Paper.**
- 77 Stephens, H. C., 1 Aldersgate-st., London.—Inks of all colours and descriptions.**
- HIGHEST AWARDS at—**
- | | |
|--------------------|---------------------------------|
| Paris, 1867 | Melbourne, 1880 |
| Havre, 1868 | Adelaide, 1881 |
| Amsterdam, 1869 | Christchurch, New Zealand, 1882 |
| Lyon, 1872 | Amsterdam, 1883 |
| Venice, 1873 | Boston, U.S.A., 1883 |
| Philadelphia, 1876 | Calcutta, 1884 |
| Paris, 1879 | Antwerp, 1885. |
| Sydney, 1879 | |
- 19 MEDALS—8 Gold and 11 others.**
- 78 Stewart, Geo., & Co., 92 George-street, Edinburgh. Manufacturers of Sealing Wax for Letters, Seals, Parcels, Mailbags, Bottling, and other purposes; Sealing Wax for Extreme Climates.—Sealing Wax: Fancy, Perfumed, Colours.**
- 79 Thcmas & Sons, 88 Coleman-st., London.—Stationery.**
- 80 Turck, E., 151 Gloucester-road, London.—Mirroring, for painting.**
- 81 Willis, W. H., and Co., Longacre, London.—Stationers' novelties, &c.**
- 82 Windle & Blyth, Walsall.—Office furniture and stationers' sundries.**
- 83 Wolff, E., & Scns, Great Queen-st., London.—Black-lead and coloured pencils and stationers' sundries.**
- Class 11.—General Application of the Arts of Drawing and Modelling.**
- 84 Morgan, W., Great Winchester-st., London.—Heraldic engraving, dies, crests, &c.**
- 85 Sutton & Sons, Royal Seed Establishment, Reading.—Album containing illustrations of flowers.**
- Class 12.—Photographic Proofs and Apparatus.**
- 86 Bullen, T. E. H., 19 Ivy-lane, London.—Dry plates, negatives, transparencies, and cameras.**
- 87 Delves-Broughton, V. W., 64 Elsham-road, Kensington W.—Camera and stand.**
- 88 Delves-Broughton, V. W., Blythe-road, West Kensington.—Photographic Apparatus. Enquiries to be addressed to Messrs. Schmedes, Erbslöh & Co., Melbourne.**
- 89 Gibson, H., Fore-st., Hexham.—Northumbrian landscape photographs.**
- 90 Martin, W., & Co., 67 West Hill-st., Glasgow.—Photographs of classical subjects.**
- 91 Mayall and Co. Ltd., 164 New Bond-st., London.—Portraits in colour photography.**
- 92 Morgan & Kidd, Richmond, Surrey.—Enlarged photographs on opal and paper, by the argentic-gelatine-bromide process.**
- 93 Murray, R. N. R., Shatheffer, Scotland.—Photographic views and apparatus.**
- 94 Russell and Sons, 17 Boker-st., London.—Frames of photographs printed in silver and olatintotype.**
- 95 Stephens, H. C., 191 Aldersgate-st., London.—Permanent and transparent preparations for dyeing pine and deal in imitation of chief hard woods.**
- 96 Taylor, T. S. & W., Slate-street Works, Leicester. Engineers and Instrument Makers.**
- MAKERS OF
HIGH-CLASS PHOTOGRAPHIC LENSES, &c.
- 97 Watson & Sons, 313 High Holborn, London.—Tourists' and detectives' cameras, lenses, &c.**
- 98 West, G., & Son, Palmerston-road, Southsea.—Instantaneous studies of yachts in full sail.**
- 99 Wilson, G. W., & Co., 2 St. Swithin-st., Aberdeen.—Photographs and photo-medallions.**
- 100 York & Son, 87 Lancaster-road, London.—Optical lantern slides on glass for projection, commonly called magic-lantern slides.**
- Class 13.—Musical Instruments.**
- 101 Aluminium Crown Metal Co. Ltd., 34 St. Mary Axe, London.—Musical instruments, in aluminium bronze.**
- 102 Avill & Smart, 77 Tabernacle-st., London.—Cottage and Chippendale pianofortes.**
- 103 Besson, F., & Co., 198 Euston-road, London.—Brass and silver plated military band instruments. Agents: W. H. Glen and Co., 21 and 23 Collins-st., East, Melbourne.**
- 104 Bookey & Co., 295 Regent-st., London.—Brass, silver-plated, gilt, and other musical instruments.**
- 105 Brinsmead, J., & Sons, 10, 20, and 22 Wigmore-st., London.—Oblique and upright grand pianofortes.**
- 106 Chappell, T., & Co., 50 New Bond-st., London.—Pianofortes and harmoniums. Agents: W. H. Glen and Co., 21 and 23 Collins-st., East, Melbourne.**
- 107 Collard & Collard, 16 Grosvenor-st., London.—Grand and cottage pianofortes.**
- 108 Davies, Turner & Co., Liverpool.—Violins.**
- 109 Green, G., & Seaton, A., 3 East Mount-st., Mile End, London.—Pianoforte and harp.**
- 110 Hopkinson, J. & J., 95 New Bond-st., London.—Grand and cottage pianofortes.**
- 111 Lachenal & Co., Little James-st., Gray's Inn-road, London.—Concertinas. Agents: P. Falk & Co., 18 Little Collins-street E., Melbourne.**
- 112 Mayson, W. H., Lake Side, Windermere.—Violins.**
- 113 Murdoch, J. G., & Co. Ltd., 91 and 93 Farringdon-road, London.—Pianofortes and American and mechanical organs.**
- 114 Omund, J., Kirkister, Stromness, Orkney, Scotland.—Violins, modelled after Stradivarius.**
- 115 Spencer, J., & Co., London.—Upright grand pianofortes.**
- 116 Wood & Co., 3 Rathbone-place, London.—Upright concert grand and cottage pianofortes.**

FOR ALL DISEASES OF HORSES' LEGS, &c.

USE STEVENS' OINTMENT.

BRITISH EXHIBITS.

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THE ONLY REMEDY FOR SPLINT, SPAVIN, CURB, & COUGHS IN THE HORSE.

Class 14.—Mathematical and Philosophical Instruments.

- 117 Ahrens, C. D., Kingston-on-Thames.—Quartz prisms and crystals.
- 118 Armitage, C. W., 46 Magdalen Yard-road, Dundee, Scotland.—Spectacles, microscopes, telescopes, and opera glasses.
- 119 Avery, W. & T., Digheth, Birmingham.—Analytical and assay balances.
- 120 Baxter, M., 48 Park Grove, Battersea, London.—Thermometers, barometers, telescopes, and opera glasses.
- 121 Chandler, J. C., 111 Battersea Park-road, London.—Spectacles, microscopes, and telescopes.
- 122 Eyre & Spottiswoode, Great New-st., London.—Mathematical instruments.
- 123 Green & Seaton, 3 East Mount-st., Mile End, London.—Microscopes and magnifying glasses.
- 124 Heath & Co. Ltd., Observatory Works, Crayford, London.—Sextants, binocular glasses, and barometers.
- 125 Imnisch, M., & Co., Electric Works, Malden Crescent, Prince of Wales-road, London.—Thermometers.

126 Larcher, H. W., 41 Eaton-terrace, London, S.W.—Microscopes for all purposes.

127 Luby Bros., 113 Regent-street, London.—Spectacles and eye-glasses.

128 Rabone, J., & Sons, Hockley Abbey Works, Birmingham.—Spirit levels, &c.

129 Watson, W., & Sons, High Holborn, London.—Microscopes, objectives, compasses, barometers, thermometers, &c.

Class 15.—Maps, and Geographical and Cosmographical Apparatus.

- 130 Bacon, G. W., & Co., 127 Strand, London.—School and other maps and atlases, relief maps, diagrams for geological levelling.
- 131 Johnston, A., & Co., & Paternoster-buildings, London.—Geographical publications.
- 132 Martin, W., & Co., 67 West Nile-st., Glasgow.—Alto-relievo models of the six continents and of European countries.
- 133 Sunday-school Union, 56 Old Bailey, London.—Maps.

III.

Furniture and Accessories.

Class 16.—Furniture.

- 184 Accordion Pleating Manufacturing Co., 228 Euston-road, London.—Screens.
- 185 Birmingham Bedstead Co., Sampson-road, North Birmingham.—Brass and composite bedsteads.
- 186 Brookes, J. & H., Birmingham.—An assortment of metallic bedsteads.
Agent: H. Todd, 1 Flinders-lane West, Melbourne.
- 187 Burroughes & Watts, 19 Soho-square, London.—Billiard tables, cues, and requisites.
- 188 Ebner, J. F., 150 Old-st., London.—Artistic joinery and parquet flooring.
- 189 Elmore, W. T., & Son, 16 City-road, London, and Leicester. Manufacturers of Specialities in Willow, Rush, Cane, and Bamboo. Largest manufacturers of these goods in Europe.
- 190 Harper, A., & Sons, Dudley.—Bedsteads and cots.
- 191 Harris & Sheldon, Stafford-st., Birmingham.—Plate-glass show case, and articles used in the furnishing of shops.
- 192 Hitching & Wynn, 19 Ludgate-hill, London, and Liverpool, Brighton, and Dublin.—Baby-chairs and invalid furniture. Agents: Harry Dix & Co., 65 William-st., Melbourne.
- 193 Holt Bros., Eve Hill Works, Dudley.—Brass and iron bedsteads.
- 194 Hoskins & Sewell, Bordesley, Birmingham.—Iron and brass bedsteads.
- 195 Jennings, G., Stangate, London.—Ornamental, shower, douche, needle, spring, and other baths.

146 Lipscomb, Bayley & Co., Dispatch Works, Stanhope-st., Birmingham.—Brass and pearl bedsteads. Agents: Harry Dix and Co., 65 William-st., Melbourne.

147 MacMahon, C., 21 Leeson Park, Dublin.—Invalid tables, chairs, &c.

148 Model & Co., 28 Tottenham-st., Tottenham Court-road, London.—Bamboo-cane furniture.

149 Moore & Hunton, 59 to 64 Worship-st., London.—Cabinet furniture.

150 Peyton & Peyton, Bordesley Works, Birmingham.—Metallic Bedsteads, Iron, Brass, and Nickel Plated. Office and Show Room in Melbourne, Salisbury Buildings, Bourke-street West. Agent: Mr. William Farr.

151 Phillips & Son, Speedwell Works, Birmingham, England.—BRASS AND IRON BEDSTEADS. Also manufacturers of Fire and Thief Proof Safes, so well known in the Australian Markets. Agents: Welch, Perrin and Co., Moray-st., South Melbourne.

152 Sharp, W. S. P., Bank of New South Wales, London.—Spring mattresses and bedsteads combined, shakingdowns, &c.

153 Skelton, W. G. & Co., Sheffield Grate Works.—Fenders, fire-irons, rests, &c.

154 Smee, W. A. & S., 89 Finsbury Pavement, London.—Furniture.

155 Taylor, Miss, Agnes-st., London.—Hand-embroidered screen.

156 Turner, S. F., Wellington Works, Dudley.—Bedsteads, fenders, and fire-irons.

157 Veitch, R., 15 Oberstein-road, New Wandsworth, London.—Inlaid tabletops.

158 Wadman, C., 5 and 6 James-st., Bath.—Chairs, tables, ottomans, and music stools.

159 Wigston Foundry Co., near Leicester.—Marble mantelpieces.

SOLD BY ALL DRUGGISTS IN THE COLONIES.

Class 17.—Upholsterers' and Decorators' Work.

- 160 Carr, James, & Sons,** Clarence Mills, Chester-road, Manchester. Manufacturers of all kinds of SMALLWARES for Upholsterers, including Cretonne and Tapestry Bindings, Silk and Worsted Gimp, Scroll Gimp, Crapé Cords, Mattress Bindings, &c.; BELT WEBS and CARPET BINDINGS; TAPES and CORDS of all descriptions for Venetian Blinds, &c., &c.



ALSO PATENTEES AND SOLE MANUFACTURERS
OF
CARR'S PATENT LADDER TAPE,
FOR VENETIAN BLINDS.

CAUTION.—Other and inferior makes of WOVEN LADDER TAPES are now being sold. The ORIGINAL and BEST has the name of "CARR'S" stamped on one cross-strap in every yard.

ASK FOR

CARR'S STAMPED LADDER TAPE,

And see that the name is there.

- 161 Cotterell, W.,** 35 and 37 Ann-st., Glasgow.—Picture-frame mouldings, showing decorative treatment.

- 162 Ebner, J. F.,** 150 Old-st., London.—Mosaic flooring and decorations.

- 163 Harris, J. F. & G.,** 58 Wilson-st., Finsbury, London.—Fancy wood decorations.

- 164 Lang & Co.,** 146 and 150 Ingram-st., Glasgow.—Art curtains, covers, and antimacassars.

- 165 Morell, H.,** 17 and 18 Great St. Andrew-st., London.—Picture-frame mouldings.

- 166 Ward, J. W. & C.,** Albion Mills, Halifax.—Tapestries and tapestry curtains.

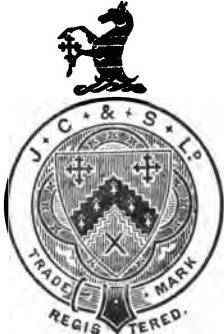
- 167 Yates, Haywood & Co.,** 96 Upper Thames-st., London.—Iron and marble chimney-pieces and mantels.

Class 18.—Carpets, Tapestry, and Other Stuffs for Furniture.

- 168 Bennie, J., & Co.,** Jubilee Carpet Works, Kidderminster.—Wilton and Brussels carpets.

- 169 Brinton, J., & Co. Ltd.,** Kidderminster.—Carpets.

- 170 Crossley, John, & Sons, Ltd.,** Dean Clough Mills, Halifax, England.—Tournay, Brussels, and Patent Tapestry Velvet Carpets; Sofa Carpets, Rugs, and Mats in all sizes; Patent Printed Velvet Table-covers.



The specimens exhibited consist of TAPESTRY, VELVET, and WILTON CARPETS. The whole of the materials composing these goods are received at Dean Clough Mills in the raw state, and every process of manufacture is carried out on the premises under the most careful supervision. The space at the disposal of the Company prevents their exhibiting more than a very few of the large variety of Goods which they produce, which comprise RUGS, SOFA CARPETS, TABLE-COVERS, CURTAINS, TAPESTRIES, CHAIR-COVERS, and FURNITURE COVERINGS.

Special attention is called to the LARGE SHAMLESS TAPESTRY, VELVET, and WILTON SQUARES, which are a specialty of the firm, and are the only large SHAMLESS CARPETS of this kind in the Trade. These goods are produced in power looms, which are the invention of the firm.

The Company employs 5000 workpeople. Their works cover an area of 25 acres, with a floorage of 40 acres. The indicated horse power necessary to drive their machinery is equal to 4500 horses; the length of main shafting is 20 miles, and the length of carpet produced is about 6,000,000 yards per annum, by far the largest quantity produced by any Carpet Works in the World.

- 171 Cooke, Sons & Co.,** 12 Friday-street, London.—Carpets, matting, and mats (see page 13).

- 172 Firth, T. F., & Sons,** Clifton Mills, Brig-house.—Brussels carpet and tapestry.

Agent:—H. Todd, 1 Flinders-lane West, Melbourne.

- 173 Harry, W. D., & Co.,** 292 Lower-ro Deptford, London.—Linoleum floor-cloths.

- 174 Hart, Mrs. E.,** 43 Wigmore-st., London.—Kell's embroidered curtains and furniture stuffs, &c.

COOKE, SONS & CO., 12 Friday Street, London.

BRITISH EXHIBITS.

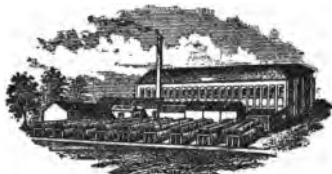
13

Cooke, Sons & Co., 12 Friday-street, London; Liversedge, Yorkshire; and Hadleigh, Suffolk.
Melbourne: A. A. Boyd, 2 St. James' Buildings, William-street.

TELEGRAPHIC ADDRESSES:—"Cooke, London." "Cooke, Liversedge."

Wilton, Brussels, Axminster, Tapestry, and Kidderminster Carpets, Cocoa Matting and Mats.

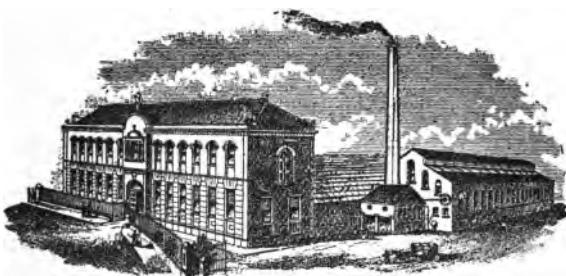
Importers of Oriental and Turkey Carpets and Rugs.



MATTING FACTORY, HADLEIGH, SUFFOLK.



SPINNING MILLS, LIVERSEDGE, YORKSHIRE.



CARPET FACTORY, LIVERSEDGE, YORKSHIRE.

Melbourne: MR. A. A. BOYD, 2 St. James' Buildings, William Street.

LIVERSEDGE, YORKSHIRE.

AUSTRALIAN RESIDENT AGENTS FOR BRITISH AND FOREIGN MANUFACTURERS.

RICHARD ALLEN & CO., AGENTS,

14

MELBOURNE CENTENNIAL INTERNATIONAL EXHIBITION.

175 Henderson & Co. Ltd., Durham.—Wilton and Brussels carpets.

176 Hendry, Whyte & Strachan, Linoleum and Floor Cloth Manufacturers, Kirkcaldy, Scotland.—Linoleum. Richard Allen & Co., Australian Agents.

Agents in Melbourne and Adelaide: Messrs. Richard Allen & Co.

Agents in Sydney: Messrs. John Gilchrist & Co.

Agent in Brisbane: Mr. John Bell.

London Manager: Mr. John Hindley, 8 Red Cross-street, E.C.

177 Jones & Willis, 260 Euston-road, London.—Church carpets, hangings, etc.

178 Jones & Willis, 43 Gt. Russell-st., London; and Birmingham, England. Church Furniture Manufacturers of every description in METAL, WOOD, and STONE.—Textile Fabrics and Stained Glass. Represented by Allan & Co., 17 Collins-street East, Melbourne.

179 Kirkcaldy Linoleum Company Ltd., Kirkcaldy; London: 151 Queen Victoria-st., E.C.; Manchester: 7 Portland-st.—Linoleum, Two and Four Yards Wide, for Floors, Walls, &c. Cork Carpet, Plain and Printed, Two Yards Wide. GOLD MEDAL, HIGHEST AWARD.—International Exhibition, Edinburgh, 1866; Exposition des Sciences et des Arts Industriels, Paris, 1886.

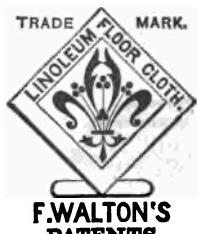
180 Laycock, Samuel, & Sons, Portobello-place, Sheffield. Manufacturers of Hair Seating, Curled Hair, and Dressers of Brush Makers'



Drafts, Mexican and Cocoa Fibres; Upholsterers' Trimmings, Twines, &c., supplied on the best shipping terms.—Horse-hair carpet and hair-seating.

181 Lee, Daniel and Co., Fountain-st., Manchester.—Printed cretonnes for furniture.

182 Linoleum Manufacturing Co. Ltd., 144 Queen Victoria-street, London, E.C. Manufacturer at Staines. Manager, J. H. Swinburn. LINOLEUM FLOOR CLOTH.



183 Morton & Sons, 19 and 20 Old Bailey, London; and Kidderminster.—Velvet-pile carpets.

184 M'Crea, H. C., & Co. Ltd., Trinity-road, Halifax.—Furniture, covering stufs, curtains, &c.

185 Nairn, M., & Co., Scottish Floor-cloth and Linoleum Works, Kirkcaldy, Scotland.—Floor-cloths and linoleum.



LONDON WAREHOUSE (Telephone No. 6502)—
131 Aldersgate-street, E.C.

MANCHESTER WAREHOUSE (Telephone No. 387)—
4 Canal-street, Minshull-street.

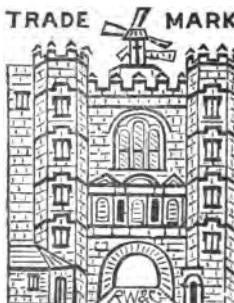
GLASGOW WAREHOUSE—
113 Centre-street.

PARIS WAREHOUSES—Telephone.
57 Boulevard Ornano;
159 Rue St. Honore; and
72 Boulevard Sebastopol.

Prize Medals:
Paris, 1867 and 1878,
Philadelphia, 1876,
Sydney, 1879,
Frankfort, 1881,
Cork, 1883,
Edinburgh, 1886.

Agents: James Dyer, 28 King-street, Melbourne; Thomas E. Hall, 84 King-street, Sydney, N.S.W.; Henry Young, Dunedin, N.Z.

186 Ridley, Whitley & Co., 46 & 47 Newgate-st., London.—Manufactories: 292 Essex-road, Islington; Lawrence-road, Tottenham; and Angel-road, Edmonton.



YE OLD NEWGATE
NEWGATE &
LONDON

SILENTIUM, the Improved Linoleum, 2 and 4 yards wide. Floor-cloths, 2 to 8 yards wide.

Leather Cloths, Oil Table-covers, Paper Hangings. Telegraphic Address: "Silentium," London.

Agent: H. Todd, 1 Flinders-lane West, Melbourne.

(Hosier Lane), FLINDERS LANE EAST.

H. & M. SOUTHWELL, BRIDGNORTH & LONDON.

BRITISH EXHIBITS.

15

- 187 Shepherd & Beveridge**, Kirkcaldy Floor-cloth Works, Kirkcaldy, Scotland. London—151 Queen Victoria-street, E.C. Floor-cloth Manufacturers. 2000 square yards, Floor-cloths from 18 inches to 24 feet wide without Seam, also all appliances for the storage, planning, and cutting of wide goods.



GOLD MEDAL—HIGHEST AWARD,
INTERNATIONAL EXHIBITION, EDINBURGH, 1888.

Good old-fashioned Floor-cloths of the best makes are the best Floor Covering for Halls, Kitchens, Lobbies, Surrounds, Lavatories; Warehouses, Shops, &c. They are durable, are always bright, clean, and dry, are easily washed, do not absorb wet, grease, or gases, and are perfectly inodorous. They can be had without join, and do not shrink, and have many other advantages over the various lately-introduced Floor Coverings. Our goods can be had retail from all Carpet, Furnishing, and Upholstery Warehouses throughout the World.

- 188 Southwell, H. & M., Bridgnorth and London.**—CARPETS.

1. **BEST WILTON STAIR CARPET.**—Persian Ornament, in Rich Subdued Colours.
2. **BEST WILTON CARPET.**—Landscape Chintz Design, with Australasian Ferns and Flora.
3. **BEST WILTON CARPET.**—Japanese Drawingroom Design, in Soft and Delicate Shades.
4. **BEST WILTON CARPET.**—Persianised Panel Design.
5. **BEST WILTON CARPET.**—Heraldic Design, combining the Arms of Australia with those of the Mother Country.
6. **BEST WILTON CARPET.**—Conventional Indian Floral Design, in Rich Subdued Tones.
7. **BEST WILTON CARPET.**—Conventional Floral Design—Japanised Water Plants.
8. **BEST WILTON CARPET.**—Panel Design, introducing Flora of Australasia.
9. **BEST WILTON CARPET.**—**BEST WILTON STAIR CARPET.**—Rich Indian Design.

- 189 Templeton & Crabtree**, Douglas Mills, Richmondwich, Yorkshire.—Art carpet squares.

- 190 Webb, Edward, & Sons**, Worcester, England.

HORSEHAIR CARPET.—The most durable Carpet made; specially adapted for Stairs, Halls, Billiard Rooms, Railway Carriages, &c.

BLACK AND COLOURED DAMASK SEATING.—Cool, Clean, and Durable. For Domestic and Railway Upholstery.

CURLED HAIR in all qualities.

TAILOR'S HAIR-CLOTH PADDINGS.—The most suitable Coat Stiffening for Warm Climates, being Light, Porous, and Unaffected by Moisture. HOP KILN CLOTH, for Drying Hops upon.

PRESS CLOTH, for Pressing Cider, Fruit, or Grapes.

Agent: Mr. G. M. Whittall, Beehive Chambers, Elizabeth-street, Melbourne.

- 191 Whittall, M. W., & Co.**, Exchange-st., Kidderminster.—Brussels and Wilton carpets.

- 192 Widnell, H., & Co.**, Lasswade, near Edinburgh.—Patent tapestry and velvet carpets.

Class 19.—Paperhangings.

- 193 Carlisle & Clegg**, Graham-st., City-road, London.—Paperhangings.

- 194 Cooke, W., & Co.**, Grove Works, Leeds.—Paperhangings.

- 195 Cottrell Bros.**, 11 Clare-st., Bristol.—Specimens of wall papers and decorations.

- 196 Ridley, Whitley & Co.**, 46 Newgate-st., London.—Paperhangings.

- 197 Rottmann, Strome & Co.**, 49 St. Mary Axe, London.—Leather wall-papers.

Class 20.—Cutlery.

- 198 Aluminium Crown Metal Co. Ltd.**, 34 St. Mary Axe, E.C.—Table knives, fish-cutters, &c., in aluminium bronze.

- 199 Butler, G., & Co.**, Sheffield.—Cutlery.

- 200 Cadman, T. R.**, 211 St. Mary's-road, Sheffield.—Razors.

- 201 Field, A., & Co.**, 23 Westfield-terrace, Sheffield.—All descriptions of cutlery.

- 202 Green, A. G., & Co.**, 91 Old Montague-st., London.—Fruit and vegetable knives, &c.

- 203 Hemming, O., & Son**, 4 Harrow-alley, Houndsditch, London.—Scissors and knives.

- 204 Humphreys, W. R., & Co.**, Eyre-street Works, Sheffield.—Table and other cutlery.

- 205 Marsh Bros. & Co.**, Ponds Works, Sheffield.—Cutlery. Agents: Balfour, Elliott & Co. Ltd., 5 Queen-st., Melbourne.

- 206 Needham, Veall & Tysack**, Eye Witness Works, Milton-st., Sheffield.—General cutlery.

- 207 Oliver & Squire**, 15 Langley-st., Ashbourne-road, Derby.—Knives, razors, and scissors.

- 208 Pound, J., & Co.**, 81 Leadenhall-st., London.—Cutlery.

- 209 Rodgers, Joseph, & Sons Limited.**—Norfolk-street, Sheffield.—CUTLERY. A selection of the highest quality of Cutlery—Table, Pen, Pocket, Sportsman's, Hunting, and Bowie Knives, Daggers, &c.; Scissors, Razors; also, Table Cutlery, Razors, and Scissors in Cases, Fish Carvers and Fish Eating, and Dessert Knives. Electro-plate in all branches, viz.—Tea and Coffee Services, Trays, Cruets, Spoons, Forks, and general Hollowware.

Registered
Trade Mark  is stamped

upon every article, and without which none is genuine.

HIGHEST AWARDS, LONDON & PARIS.

FIRST QUALITY WILTON, BRUSSELS, AND AXMINSTER CARPETS.

21 Southern & Richardson, Doncaster-st., Sheffield.—Cutlery.

211 Williams, T., 8 and 14 West Smithfield, London.—Butchers' cutlery.

212 Wingfield, Rowbotham & Co., 82 Tenter-street, Sheffield.—Cutlery. Trade Mark, Harp and Crown.



A selection of useful high-class Cutlery : Table Knives, Carvers, Butchers' Knives and Steels, Pocket Knives, Hunting and Sportsmen's Knives, Farriers' Knives, Razors, and Scissors.

213 Woolhouse, W., & Co., 24 Carver-lane, Sheffield.—Table and pocket cutlery, scissors, razors, &c.

Class 21.—Goldsmiths' and Silversmiths' Work.

214 Boardman, Glossop & Co., Pond-st., Sheffield.—Electro-plated tea tray, tea and coffee sets, prize cups, &c.

215 Burns & Oates Ltd., 28 Orchard-st., London.—Gold and silver church plate.

216 Castle, J. J., 14 Benhill-road, Camberwell, London.—Altar cross and candlesticks.

217 Jones & Willis, 48 Great Russell-st., London.—Church altar furniture, repoussé dishes, communion plate.

218 Mordan, Sampson & Co., 41 and 43 City-road, and 72 Cheapside, London.—Gold and silver pencil-cases, scent bottles, and other articles.

219 Potosi Silver Co., Newhall-st., Birmingham.—Specimens of Potosi silver and silver plate.

220 Rodgers, J., & Sons Ltd., 6 Norfolk-st., Sheffield.—Silver and electro-plated goods.

221 Shaw & Fisher, 48 Suffolk-road, Sheffield.—Silver, electro-plated, and other goods.

222 Walker & Hall, Howard-st., Sheffield.—Silver and electro-plated goods.

223 Wilson, F., & Co., Hatton Works, Sheffield.—Electro-plated articles.

Class 22.—Bronzes and various Art Castings and Repoussé Work.

224 Aluminium Crown Metal Co. Ltd., 34 St. Mary Axe, London.—Art bronzes, &c., in aluminium bronze.

225 Clark, Bunnett and Co.—Bronze architectural castings.

226 Coalbrookdale Co. Ltd., The, Coalbrookdale, Salop.—Ornamental castings of figures, animals, &c., in bronze and cast-iron.

227 Gawthorp, T. J., 16 Long Acre, London.—Hand-carved brass memorial portrait of Col. Fred. Burnaby, on marble slab.

228 Loveridge, H., & Co., Merridale Works, Wolverhampton.—Repoussé work, in copper and brass.

Class 23.—Clocks and Watches.

229 British United Clock Co. Ltd., 8 Hockley Hill, Birmingham.—English lever clocks.

Australasian Representative : T. K. Steanes, 56 Margaret-st., Sydney ; and Office, British Court.

230 Castle, J. J., 14 Benhill-road, Camberwell, London.—Repoussé clock.

231 Chubb & Sons Lock and Safe Co. Ltd., 128 Queen Victoria-st., London.—Patent chronometer and alarm lock attachments.

232 Llewellyn's Machine Co., King-square, Bristol.—Time-checking machines, for checking the arrival and departure of workmen. Sole Agents : Nason & Co., 263 George-st., Sydney.

233 Rotherham & Sons, Coventry and London, England. Watch Manufacturers. Prize Medallists, London, 1851 and 1862. Juror : Inventions Exhibition, London, 1865.

Exhibit : Gold (9 and 18 carat), and Silver full-plate and $\frac{1}{2}$ -plate Watches. Keyless and Non-keyless, with fusee and going barrel movements, the latter made on the interchangeable system, by the aid of the highest-class machinery.

Gold minute and seconds Chronographs and adjusted watches, with A Kew Certificates.

Gold Watch—the only one in existence—with the works (with the exception of the steel parts) made entirely of 18-carat gold.

Gold Skeleton Watch, showing the action of every part of an English fusee and $\frac{1}{2}$ -plate Watch. Non-magnetic Watches, with palladium springs, and gold or compensation balances.

Class 24.—Perfumery.

234 Biggleston, E. B., Mercury-lane, Canterbury. Heliotrope Essence and Sachets, J. R. Hall's Wood Violet Essence, Wood Violet Sachet Powder. Exhibition Agent : Mr. W. Halsey, 17 Queen-street, Melbourne. Wholesale Agents : Mears, Rocke, Tompatt & Co., 3 Flinders-street, Melbourne.

235 Burroughs, Wellcome & Co., Snow-hill Buildings, London.—Lanoline soap, pomade, and cold cream.

236 Cleaver, F. S., & Sons, 32, 33, and 34 Red Lion-st., London, W.C. Perfumers and Fancy Soap Makers.—Soaps and Perfumery.

Prize Medals : 1851, 1858, 1865, 1862, 1867, 1875, 1878, 1884, and 1887.

Silver Medal, Paris, 1878.

Gold Medal, London, 1884.

Diploma of Honour (the Highest Award known), Antwerp, 1887.

Two First Orders of Merit, Adelaide, 1887.

THE CROWN PERFUMERY COMPANY, OF 177 NEW BOND ST., LONDON.

BRITISH EXHIBITS.

17

FINEST ENGLISH PERFUMERY, TRANSPARENT AND OTHER TOILET SOAPS.

- 237 Crown Perfumery Co.**, 177 New Bond-st. West.—Finest English Perfumery, Sachets, Toilet Soaps.



No. A1.

Makers of the celebrated New Perfume, CRAB-APPLE BLOSSOMS, and Invigorating LAVENDER SALTS. Sold everywhere. Eight Prize Medals. Two First Medals at Adelaide Exhibition. Agents: Harry Dix & Co., 65 William-st., Melbourne.

- 238 Pears, A. & F.**, 71–75 Oxford-st., London.—Transparent soap. Melbourne Dépot: 132 Collins-st. West; Francis Forrest and Co., Sole Agents.

- 239 Price's Patent Candle Co. Ltd.**, Battersea, London.—Toilet soaps.

- 240 Sardon, H., & Co.**, 9 and 10 Red Cross-st., London.—Perfumery.

Class 25.—Leatherwork, Fancy Articles, and Basketwork.

- 241 Accordion Pleating Manufacturing Co.**, 228 Euston-road, London.—Letter-racks and fancy articles.



- 242 Ellmore, W. T., & Son**, London and Leicester.—Jardinières, tea-tables, &c., in bamboo, willow, and rush.

- 243 Fisk, R.**, 8 Wynnyatt-st., Clerkenwell, London.—Leather goods and fancy articles.

- 244 Harris, A., & Co.**, 21 and 24 Whitecross-st., London, E.C., and Niagara-lane, Melbourne.—Manufacturers of Plush Goods, Earthenware, Photographs on Opals, Plaques, and Importers of Cutlery, Pipes, Electro-plate, and Fancy Goods. Country Dealers please call on A. Harris and Co., Niagara-lane, Melbourne.

We are prepared to execute indents at low rates, and are represented in Europe by experienced buyers for the following goods:

Mouldings, Cutlery, Pipes, Cigars, Cigarettes, Tobacconists' Sundries, Electro-plate, Earthenware, China, Clothing, Drapery, Boots, Hardware, Pianos, Music, Accordions, Musical Instruments, Toys, Foreign China, Glass, Stationery, Chemists' Sundries, Chemicals, Sweetmeats, Bottles, Furniture, Pictures.

- 245 Hirschfeld, G.**, 15 Oseney-crescent, Camden-road, London.—Leatherwork, tortoise combe, &c.

- 246 Jackson Asbestos Manufacturing Co.**, 105 Wollaton-st., Nottingham.—Asbestos tobacco pipes.

- 247 Lowthime, D. A.**, 17 Lamb's Conduit-st., London.—Plush frames.

- 248 Pound, John, & Co.**, 81, 82, 83, 84, Leadenhall-street, London, E.C.—Manufacturers of Solid Leather and all classes of Portmanteaux, Trunks, Bags, Dressing Bags, Dress Baskets, and Leather Goods of every description. High-class Cutlery, &c., &c. Special attention is called to excellence of manufacture combined with economy in production.

- 249 Whyte, Ridsdale & Co.**, 74 and 75 Hounds-ditch, Bishopsgate, London, E., MANUFACTURERS' AGENTS AND WAREHOUSEMEN OF BRITISH AND FOREIGN FANCY GOODS.

The exhibit is composed, not of articles specially prepared, but of some of the current samples of the year, and is therefore fairly representative of the present productions of the firm.

IV.

Fictile Manufactures—Glass, Pottery, &c.

Class 26.—Crystal Glass and Stained Glass.

- 250 Aire & Calder Bottle Co.** (E. Breffit & Co. Ltd.), 83 Upper Thames-st., London.—Glass bottles.

- 251 Barrett & Foster**, Eagle Wharf-road, London.—Bottles and syphon bottles.

- 252 Brooks, J. S.**, 198 Great Portland-st., London.—Crystal table glass.

- 253 Castle, J. J.**, 114 Benhill-road, Camberwell, London.—Gasoliers and chandeliers.

- 254 Clayton & Bell**, 311 Regent-st., London.—Stained glass.

- 255 Cotterell, W.**, 87 Anne-st., Glasgow.—Mirrors, in gold and silver, deposited from liquid solutions.

- 256 Davis, J., & Co.**, Dial Glass Works, Stourbridge.—Set of table glass, &c.

- 257 Defries, J., & Sons**, 147 Houndsditch, London.—Glassware, for table use.

- 258 Fairbairns, W., & Sons**, 65 St. Mary Axe, London.—Table and ornamental glassware.

- 259 Harrison, N.**, Stoke-on-Trent, Staffordshire.—Domestic and ornamental glassware.

- 260 Hawkes, J. & O. C.**, Globe Works, Bromsgrove-st., Birmingham.—Stained glass, toilet glasses, and mirrors.

- 261 Hearn, E. A., & Co.**, 381 Kingsland-road, London.—Bottles and glass pots.

- 262 Holmes, F.**, 2 Wheeler-st., Spitalfields, London.—Glass engraving.

8 PRIZE MEDALS AWARDED THE CROWN PERFUMERY COMPANY.

- 263 Kilner Brothers**, Great Northern Goods Station, King's Cross, London.—Glass bottles. Manufacturers of GLASS BOTTLES, VAN BOXES, CASES, &c., of every description.



Price Lists upon application.

Offices:
KING'S CROSS, LONDON, ENGLAND.

Works:
Thornhill Lees and Conisboro', Yorkshire.

- 264 Metillo, V.**, 66 Hatton Garden, London.—Crystal and glass ornaments.

- 273 Boote, T. & R.**, Waterloo Potteries and Encaustic Tile Works, Burslem.

- 265 McCaw, Stevenson & Orr**, Linenhall Works, Belfast, Ireland.—Common sheet glass, treated with glacier window decoration.

- 274 Pratt, E. & Co.**, 45 Jewin-st., Aldersgate-street, London.—French glassware and Haïda-stained glass.

- 266 South Yorkshire Glass Bottle Co.**, Swinton, Yorkshire.—Bottles.

- 275 Steam Decorative Glass Works Ltd.**, Mile End-road, London.—Bevelled-glass mirrors.

- 267 Stuart & Sons**, Red House Glass Works, Stourbridge.—Domestic and ornamental table glass.

- 276 Webb, T. & Sons Ltd.**, Stourbridge Glass Works, Stourbridge, England.

Grand Prix and Legion of Honour, Paris, 1878, and the very Highest Awards at all the great Exhibitions.—A Splendid Assortment of all classes of Glass, China, &c., and always on view. Latest Novelties continually arriving.

The Tiles as exhibited are of careful and sound manufacture, good colour, hard texture, and general durability.

T. & R. Boote manufacture Encaustic and Plain Tiles for floors of Entrance Halls, Vestibules, and Churches. Their Tiles have been used in some of the largest public buildings in England.

Glazed Tiles of every description—Plain, Tinted, Printed, and Painted. Art Tiles for Walls, Jams, Panels, Hearths, &c.

This firm has for a long time given great and official attention to the manufacture of Coloured Fancy Glazes, as shown in their samples of Plain and Embossed Tiles of various tints.

Plain White Granite and Decorated Earthenware.

Whenever taking part in an International Exhibition a medal has always been secured by them. The Awards include Medals of the International Exhibitions of London, 1851, 1862, and Calcutta (Gold), 1884.

- 271 York Glass Co. Ltd.**, Fishergate, York.—Glass bottles.

- 277 Burmantoft's Pottery Co. Ltd.**—Vases and ornaments

Class 27.—Pottery.

- 272 Aller Vale Pottery Co.**, Aller Vale, Newton Abbot, Devonshire.—Art pottery and terra-cotta ware.

For further information respecting this exhibit, please apply to the Agents: Lysaght Bros. & Co. Ltd., 12 Queen-st., Melbourne.

Telephone 1102, or at their stand, New South Wales Machinery Court.

- 280 Craven, Dunnill & Co. Ltd.**, Jackfield, R.S.O., Shropshire.—Tile chimney-pieces and ornamental and decorative tiles.

- 273 Boardman, Glossop & Co.**, Pond-st., Sheffield.—Pottery, with electro-plated mounts.

- 281 Defries, J. & Sons**, 147 Houndsditch, London.—Earthenware and china.

- 274 Bodley, E. J. D.**, Hill Pottery and Crown Works, Burslem, Staffordshire.—Samples of china and earthenware. Agents: Welch, Perrin & Co., Moray-st., South Melbourne.

- 282 Derby Crown Porcelain Co. Ltd.**, Osmaston-road, Derby.—Art vases, breakfast services, &c.

- 275 Brook Street Pottery**, The, Hanley, Staffordshire.—China and earthenware.

- 283 Doulton & Co.**, London and Burslem.—Art vases, jugs, bowls, and stands; breakfast, tea, dinner, and dessert services.

- 276 Brooks, J. S.**, 309 Regent-st., London.—Pottery and china.

- 284 Edge, Malkin & Co.**, Newport Pottery, Bur-slem, Staffordshire.—Decorated and printed earthenware. Agents: Welch, Perrin & Co., Moray-st., South Melbourne.

- 277 Buller, Jobson & Co. Ltd.**, 32 and 33 Queen-st., London.—China door-handles, finger-plates, &c.

- 285 Fairbairns, W., & Sons**, 65 St. Mary Axe, London.—Ornamental and useful pottery.

RICHARD ALLEN & CO., AGENTS,

BRITISH EXHIBITS.

19

- 286 Fenton, A., & Sons, Hanley.**—China, earthen, jet, majolica pottery.
- 287 Glenboig Union Fire Clay Co. Ltd., Coatbridge and Glasgow.**—Bricks and tiles.
- 288 Godwin & Hewitt, Victoria Tile Works, Hereford.**—Encaustic, geometrical, enamelled, embossed, incised, hand-painted, and other tiles.
- 289 Godwin, W., & Son, Lugwardine Works, Withington, near Hereford.**—Encaustic tiles.
- 290 Harrison, N., Stoke-on-Trent, Staffordshire.**—Domestic and ornamental pottery.
- 291 Hobbs' Antitanic Infuser Co., Crewkerne, Somerset.**—Hobbs' patent tea infusers.
- 292 Jackson, G., & Sons, 49 Rathbone-place, London.** Manufacturers of Carton Pierre Composition and Patent Fibrous Plaster Decorations. Exhibit: Patent Fibrous Plaster Ceilings, Chimney-pieces, Pliable Plaster Friezes.
- 293 Maw & Co., Jackfield, Shropshire.** Tiles for Floors, Walls, and Fireplaces. Decorative Pottery.
FLOOR TILES—Encaustic, Mosaic, Incised.
WALL TILES—Embossed, Chromo-Embossed, Bentall Ware, Printed, and Painted.
FIRE-PLACE TILES—Persian, Lustre, Intaglio, and Enamels.
PORTRY—Majolica, and Ruby Lustre.
Patent Enamelling Co., Bradford-st., Birmingham.—Enamelled signs.
- 294 Plant, R. H., & Co., Carlisle Works, High-st., Longton, Staffordshire, England.** Manufacturers of China, Tea, and Breakfastware. Special shapes and designs for the colonies.
- 295 Pratt, E., & Co., 45 Jewin-st., Aldersgate-st., London.**—Staffordshire-ware china set.
- 296 Rooney, J. & T. (potters), and Preston, Annie H. (designer and decorator), Davidstown, Co. Wexford, Ireland.**—Terra-cotta flower-pots, &c.
- 297 The Worcester Royal Porcelain Co. Ltd.,** the Royal Porcelain Works, Worcester, England.—Agents for the Exhibition: J. Dyon & Son, Great Lonsdale-street West.—Ornamental Porcelain, China, Dinner, Dessert, Tea, and Breakfast Services. Royal Worcester Vitros Dinner Services.
- 298 Wardle & Co., Washington Works, Hanley, Staffordshire.**—Art pottery.
- 299 Watcombe Pottery Co., St. Mary Church, near Torquay.**—Terra-cotta and other ware.
- 300 Webb's Worcester Tileries Co., Worcester.**—Tiles.
- 301 Wedgwood, J., & Sons, Etruria.**—China and earthenware.
- 302 Wilkinson, T., & Son, Pelican Works, Great Hampton-st., Birmingham.**—Exhibit.
- 303 York Glass Co. Ltd., York.**—Earthenware jars, filled with phototype labels.

V.

Textile Fabrics, Clothing, and Accessories.

Class 28.—Cotton Thread and Fabrics.

- 304 Alexander, R. F. & J., & Co., Glasgow.**—Sewing and knitting cottons.
- 305 Bottomley, M., & Co., Bradford, Yorkshire.**—Fancy dress goods.
- 306 Crowder, J., 20 Newgate-st., London.**—Plain and fancy piece goods.
- 307 Dewhurst, J., & Sons, Bellevue Mills, Shipton.**—Sewing, crochet, and embroidery cottons.
- 308 Hall, M'Kerrow & Co. Ltd., Windsor Mills, Pendleton, Manchester, England.**—Coloured Cotton Shirtings, Cotton Flannelettes, and Dress Goods. Cotton Ticks and Cotton Yarns, in various qualities. Warehouse: 6 Nicholas-street, Manchester.
- 309 Horrockses, Miller & Co., 55 Piccadilly Manchester; 5 Love-lane, London.** Works: Preston, Lancashire.

Crewdson, Crosses & Co., 55 Piccadilly, Manchester; 5 Love-lane, London.
Works: Bolton and Farnworth, Lancashire.

PROPRIETORS:

Horrockses, Crewdson & Co. Ltd., Cotton Spinners, and Manufacturers of Long Cloths, Twilled Shirtings, Cambrics, Nainsooks, Double Warp and Medium Calicos, Plain and Twilled Sheetings, Pillow Cottons, &c.
Specially finished for the Sewing Machine.

- 310 Haworth, R., & Co., 28 High-street, Manchester; 4 Goldsmith-street, and 19 Addle-street, London.** Works: Salford, Lancashire.
CORRON SPINNERS AND MANUFACTURERS OF Plain, Printed, and Woven Window Blinds
Plain and Fancy Velvets
Bleached, Plain, and Twilled Sheetings
Bleached Longcloths, Twills, Mediums, and Wigans
Dyed and Printed Twills, Satins, and Pocketings
Grey Lustre and Black Back Linings
Printed and Coloured Shirtings
Flannelettes, Striped and Plain Colours.
- 311 Howatt, D. G., and Co., Springfield-court, Glasgow.**—Muslins and curtains of all descriptions.
- 312 Lee & Hargreaves, 7 Rook-street, Manchester.**—White-cotton and brown and other linen Turkish towels.
- 313 Rylands & Sons Ltd., 55 Wood-street, London, and New High-street, Manchester.** Sole Proprietors of the Dacca Twist Co.



Manufacturers of the celebrated Dacca Calicos and Sheetings, Bowers', Regattas, Smallwares, Longford Sewing Cottons, Chorley Floor-cloths, Heapey-finished Silesias, Ready-made Clothing, &c. Australian Agencies:

32 Flinders-lane, Melbourne.
85 Clarence-street, Sydney;
Post-avenue, Wellington, N.Z.;
And at Hindmarsh-square, Adelaide.

(Hosier Lane), FLINDERS LANE EAST.

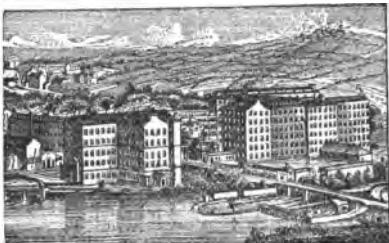
VOL. II.

RICHARD ALLEN & CO., AGENTS.

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MELBOURNE CENTENNIAL INTERNATIONAL EXHIBITION.

- 314 Strutt, W. G. & J.**, Belper, England.—Manufacturers of Sewing Cotton, Knitting Cotton, Macramé Twines, and Merino Yarns. Established 1780.



Australian Agent: Mr. G. H. Adams, 15 Flinders-st. West, Melbourne.

- 315 Webster, F., & Sons**, Arbroath, N.B.—Cotton duck. Agents: Metcalfe & Barnard, 19 Flinders-lane West, Melbourne.

Class 29.—Thread and Fabrics of Flax, Hemp, Jute, &c.

- 316 Ainsworth, T.**, Cleator Mills.—Sole, sewing, and other linen threads.

- 317 Bottomley, M., & Co.**, Bradford, Yorkshire.—Fancy dress goods.

- 318 County Down Flax Spinning and Weaving Co. Ltd.**—Linen manufactures, handkerchiefs, &c.

- 319 Cox Brothers**, Lochee, Scotland.—Jute table covers, cloths, &c. Agents: Metcalfe & Barnard, 19 Flinders-lane West, Melbourne.

- 320 Finlayson, Bousfield & Co.**, Flax Mills Johnstone, Scotland; and Grafton, U.S.A.—Manufacturers of all kinds of Linen Threads and Shoe Threads; Linen Threads, from the Rough Flax to the Finished Threads, including all kinds of Linen Threads for Machine and Hand Sewing and for Domestic Use, Macramé, Linen Crochet, Lace; Flourishing Threads, Salmon Net, and Gilling Twines; Shoe Threads and all Classes of Threads for the Boot, Saddlery, and Leather Trades; Bookbinders' Carpet, and Glove Threads. Specimens of Flax in the various Stages of Manufacture. Agents for Australia: Richard Allen & Co., Melbourne.

- 321 Gould, J. W.**, West Coker, near Yeovil.—Twines of every description.

- 322 Hart, Mrs. E.**, 43 Wigmore-st., London.—Novel and original linens, made under the direction of the Donegal Industrial Fund.

- 323 Ironmonger, T., & Son, & Co.**, the Reliance Mills, Wolverhampton.—Twines; sash, blind, and fishing lines; engine packing, &c.

- 324 Lawson, Andrew**, Flax Spinner and Sailcloth Manufacturer, Arbroath, Scotland; and 40 Mitre-street, Aldgate, London.
Representative in Australia:

G. H. Adams, 15 Flinders-street W., Melbourne;
119 Pitt-street, Sydney;
123 Queen-street, Brisbane;
3 Grenfell-street, Adelaide;
And Murray-street, Perth.

- 325 Moss, Rimmington & Co.**, Selby, Yorkshire.—Threads, twines, and cords.

- 326 Richardson (J. N.), Sons & Owden**, Donegally-square North, Belfast.—Linen and damask goods. Australian Agents: Richard Allen & Co., Melbourne.

- 327 Scotch Damask Co.**, Dunfermline.—Damasks, &c.

- 328 Tucker, R., & Sons**, Bridport.—Hemp threads of all descriptions.

- 329 Webster, Fravers & Son**, Alma Works, Arbroath, Scotland.—Sailcloth, canvas, seaming, and roping twine.

Class 30.—Worsted Yarns and Fabrics.

- 330 Bottomley, M., & Co.**, Bradford, Yorkshire.—Cashmeres and merino.

- 331 Crosland, G., & Sons**, Huddersfield, Yorkshire.—Woolens, comprising saxonies.

Class 31.—Woollen Yarn and Fabrics.

- 332 Apperly, Curtis & Co.**, Dudbridge Mills, Stroud, England. Woollen Manufacturers. Woollen and Worsted Coatings, Suitings, Overcoatings, &c., in various designs and colourings, for home and export.



MANUFACTURERS OF Worsted Coatings, Tweeds, [Superfine Cloths, Doeskins, and Venetians, &c.]

Dudbridge Mills, Stroud, Gloucestershire, West of England, and at 22 Flinders-lane West (Molls Bros.), Melbourne.

Highest Award, London, 1861.

Gold Medal, London, 1851.

Highest Award, London, 1862.

Silver Medal, London, 1881.

Highest Award, London, 1884.

Highest Award, Paris, 1885.

Gold Medal, Antwerp, 1885.

Gold Medal, New Orleans, U.S.A., 1885.

Gold Medal, Académie Nationale, Paris, 1886.

Gold Medal, Liverpool, 1886.

Agents in Melbourne: Messrs. Molls Brothers,

22 Flinders-lane West.

- 333 Apperly, D. C., & Co.**, Cripplegate-buildings, Wood-st., London.—Specialties and novelties in coatings, suitings, and trouserings.

- 334 Archibald, J. & R.**, Devonvale, Tillicoultry, Scotland.—Woollen and Worsted Manufacturers, embracing Homespuns, Cheviots, Serges, Cricket and Tennis Flannels, Saxonies, from thinnest Tropicals to heaviest Tweeds, Worsted Coatings, Suitings, Trouserings, Clan Tartans, Vicunas, Costumes, and Jacketings, Mauds, Rugs, &c.

- 335 Armytage Bros.**, 55 New-st., Huddersfield.—Worsted and woollen coatings and trouserings.

(Hosier Lane), FLINDERS LANE EAST.

- 336 Bottomley, M., & Co., Bradford, Yorkshire, England.**
 Fancy Dress Goods. Plain Blacks and Colours, Alpacas and Mohairs.
 Italian Cloths and Linings of all kinds. Alpaca Coatings and Summer Cloths.
 Black and Coloured Cashmeres and Merinoes. Crapé Cloths. Fine all-wool Black Fabrics.
 Damasks. Tapestries. Cretonnes. Plushes.
 Worsted Coatings and Tweeds. Serges and Estamenes for Men's Wear. Flannels and Shirtings of all kinds.
 Blankets and Rugs.
- 337 Brook, J., & Son, Armitage Bridge Mills, Huddersfield.—Worsted coatings and woollen and worsted serges.**
- 338 Charters, Spence & Co., Dumfries, Scotland.—Scotch tweeds.**
- 339 Crosland, G., & Sons, Huddersfield.—Cheviots and worsted fabrics.**
- 340 Dyson, J., & Sons, John William st., Huddersfield.—Worsted trouserings, coatings, etc.**
- 341 Eastwood, F., & Co., Engine Bridge Mills, Huddersfield.—Worsted coatings and trouserings.**
- 342 Firth, T. F., & Sons, Flush Mills, Heekmon-dwike.—Blankets and rugs.
 Agent: H. Todd, 1 Flinders-lane West, Melbourne.**
- 343 Hart, Mrs. E., 43 Wigmore-st., London.—Woollen yarns and homespuns, dyed by workers trained by the Donegal Industrial Fund.**
- 344 Hirst, J., & Sons, Wood-st., Huddersfield.—Pure woollen goods, in fancy designs.**
- 345 Humphreys & Thomas, Daffryn Mills, Narberth, South Wales.—Welsh flannels.**
- 346 Irish Woolen Manufacturing and Export Co. Ltd., 2 and 3 Usher's Quay, Dublin.—Cheviot tweeds, serges, ladies' costume cloth.**
- 347 Lane & Neeve, 97 Leadenhall-st., London.—Bunting.**
- 348 Mallinson, G., & Sons, Spring Grove Mills, Huddersfield.—Worsted cloth.**
- 349 Mellor, C. A., & Co., Lower Mytholm Bridge Mills, Huddersfield.—Patterns of worsted trouserings and suiting.**
- 350 Midgley, D., & Sons, 53 Leeds-road, Bradford.—Welshes, twilled, and cricketers' flannels; blankets.**
- 351 Starkey Bros., Longroyd Bridge, Huddersfield.—Woollen and worsted cloths.**
- 352 Sykes, E., & Sons, Gosport Mills, Huddersfield.—Worsted and fancy woollens.**
- 353 Taylor, J., & Sons, Colne Road Mills, Huddersfield.—Woollen and worsted trouserings and coatings.**
- 354 Thomson, W., & Sons Ltd., Woodhouse Mills, Huddersfield.—Woollen and worsted cloths.**
- 355 Thorp, J., & Sons, New Mill, near Huddersfield.—Fancy worsted trouserings and coatings.**
- 356 Tyler & Co., Maeslyn Mills, Llandysech, South Wales.—Flannels and cloth.**
- 357 Vickerman, B., & Sons Ltd., Taylor Hill, Huddersfield.—Woollen and worsted coatings and serges.**
- 358 Whiteley, N., & Co., Ramsden Mills, Huddersfield.—Plain and fancy worsteds.**
- 359 Whitman, B. & I., & Sons Ltd., Stanley Mills, Golcar, Huddersfield.—Low fancy woollens.**
- Class 32.—Silk and Silk Fabrics.
- 360 Bottomley, M., & Co., Bradford, Yorkshire.—Plushes.**
- 361 Burns & Oates, 28 Orchard-st., London.—Silk fabrics, for church vestments.**
- 362 Grout & Co., 12 Foster-lane, Cheapside, London.—Silk crapes.**
- 363 Hinde, F., & Sons, St. Mary's Silk Mills, Norwich.—Silk crapes.**
- 364 Lister & Co., Manningham Mills, Bradford.—Embroidery, filoselle, knitting, machine, and hand-sewing silks.**
- 365 Maygrove, J., 29 Jewin Crescent, London, England. Embroidery Silks for Art Needlework. Machine Silks, &c. Unfading Dye! Improved make!! Permanent Lustre!!! Telegraphic Address: "Maygrove, London."**
- 366 Rickards, C. A., Bell Busk Mills, via Leeds, Manufacturer of Machine and Sewing Silks. Melbourne Depôt: 9 Flinders-lane East.**
- 367 Ward, J. W. & C., Halifax, Yorkshire.—Plush covers, silk plushes.**
- Class 33.—Shawls.
- 368 Mallinson, G., & Sons, Springrove Mills, Huddersfield.—Shawls.**
- 369 Norton Brothers & Co. Ltd., Norton-thorpe, Huddersfield.—Shawls, etc.**
- Class 34.—Lace, Net, Embroidery, and Trimmings.
- 370 Hackett, Annie M. B., 117 Leinster-road, Rathmines, Dublin.—Mountmellick-work satin toilet-cover.**
- 371 Hart, Mrs. E., 43 Wigmore-st., London.—The "Kells" lace, made of Irish flax by the Irish workers trained by the Donegal Industrial Fund.**
- 372 Higgins, Eagle & Co., Lace and Embroidered Muslin Manufacturers, 4 and 6 Cannon-st., and 3 Distaff-lane, London, E.C.**
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- And at

Liverpool	Manchester
Birmingham	Leeds
Glasgow	Edinburgh
Melbourne: 5 Flinders-lane West.	
Telegraphic Address: "Lyford, London."	
- 373 Mitchell, Mary, Ballybrough, Ireland.—Mountmellick and plain needlework.**

THE EVERCLEAN COLLAR COMPANY, WOOD STREET, LONDON, E.C.

22

MELBOURNE CENTENNIAL INTERNATIONAL EXHIBITION.

CELLULOID COLLARS, CUFFS, SCARVES, COMBS, PINS, BRUSHES, STUDS, &c., &c.

374 Simpson & Rook, 9 and 10 Little Britain, London, Manufacturers of Naval and Military Accoutrements, Helmets, Caps, Gold and Silver Laces, Cord, Braid, and Embroidery.

The Exhibit consists of Naval and Military Cocked Hats, Helmets, Caps, and Belts. Specimens of Military, Diplomatic, Court, and Heraldic Embroidery; Gold and Silver Embroidery Materials, Laces, Cord, and Braid.

Simpson & Rook, being the only Lacemakers in England who manufacture their own materials, are in a position to guarantee the quality of all goods supplied, and also to compete favourably with other firms.

The contract for the supply of all the Laces used in the Imperial Army Clothing Departments has been in our hands more than twelve years.

Class 35.—Hosiery and Underclothing, and Accessories of Clothing.

375 Aaron, Sons & Co., 18 Jewin-st., Aldersgate-st., London.—Umbrellas, parasols, braces, and belts.

376 Avery, J. E., 17 Great Titchfield-st., London.—Shirts and collars.

377 Bayer, C., & Co., London-wall, London.—Underclothing and corsets.

378 Belfast Hemstitching Co. Ltd., Hope-st., Belfast.—Collars, cuffs, and handkerchiefs.

379 Blinkhorn, E., 69 and 71 Finsbury-pavement, London.—Stocking suspender.

380 Bruce & Wykes, Leicester.—Elastic fabrics.

381 Everclean Collar Company, The, 100 Wood-street, London, E.C., Celluloid Manufacturers.



Sole makers of the "Everclean" Waterproof Collars, &c., white and coloured.

SPECIALTIES: Celluloid Scarves and Ties, Dressing Combs and Brushes, Fancy Hair Pins and Combs, Studs, &c., &c. Agents: Harry Dix & Co., 65 William-st., Melbourne.

382 Fownes Bros. & Co., 71 Gresham-st., London.—Gloves of all descriptions.

383 French Bust Co., 128 and 129 Cheapside, London.—Stands, busts, &c., for clothing.

384 Green, J., Whitehall-road, Leeds.—Shirts.

385 Hamilton Miss, 63 Fitzroy-avenue, Belfast.—Ladies' combinations.

386 Hart, Mrs. E., 43 Wigmore-st., London.—Hand-knitted hosiery, made under the direction of the Donegal Industrial Fund.

387 Higgins, Eagle & Co., 4 and 6 Cannon-st., London.—Skirts, crinolines, underclothing, &c.

388 Irish Linen Co., Belfast.—Linens, &c.

389 Jeffery, T., Oldham-street, Manchester.—Hand and machine made ladies' underclothing.

390 Johnson, J. W., & Sons, Great Yarmouth.—Worsted knitted goods.

391 Martin, F. J., & Co., 101 and 102 Wood-st., London.—Glove-clasps.

392 Sanders, B., & Sons, Bromsgrove, Worcestershire.—Covered buttons.

393 Thomson, W. S., & Co. Limited, 48 Old Bailey, London.



Trade Mark.

Thomson's Celebrated GLOVE-FITTING CORSETS, and UNBREAKABLE BUCKS. Sold by all Dealers throughout Australasia. Over 5,000,000 already sold. Eight Prize Medals awarded. 1st Prize, Adelaide Jubilee Exhibition. Agents: Harry Dix & Co., 65 William-st., Melbourne.

394 Tillie & Henderson, Glasgow, London, and Londonderry.—Gents' shirts and collars, ladies' underclothing and corsets. Represented by Robert Reid & Co., Melbourne and Sydney.

395 Tyler & Co., Llandysil, North Wales.—Underclothing; hosiery of every description.

396 Welch, Margetson & Co., 15, 16, & 17 Cheapside, London.—Shirts, Collars, Shirting, Neckties, Scarfs, Mufflers, Handkerchiefs, Braces, Umbrellas, Rugs, Dressing Gowns, &c. FACTORIES: Southwark and Londonderry.

397 Woolhouse, W., & Co., 24 Carver-lane, Sheffield.—Umbrellas.

398 Young & Neilson, Portland-square, Belfast.—Corsets.

Class 36.—Clothing for both Sexes.

399 Bernbaum, B., 33 London-wall, London.—Waterproof clothing.

400 Blume, B., 42 Jewin-street, London, and Ford, W., & Son, 307 Gray's Inn-road, London.—Ladies' and gentlemen's boots, shoes, &c.

401 Bostock, Edwin, Stafford, England.—All descriptions of Ladies' and Children's Boots and Shoes. Sole Agents for Australia: D. Blanchard & Co., 13 Flinders-street West, Melbourne; and Sydney.

402 Branch, J., 43 Bethnal Green-road, London.—Ladies' boots and shoes.

403 Brown & Sons, Wellingborough, England.

Manufacturers of the Mark of Boot Uppers.

Leggings and gaiters; leather Merchants, &c.

Agents for Australasia and New Zealand: Messrs. Warren & Brown, Barrack-street, Sydney.

CELLULOID MANUFACTURERS.

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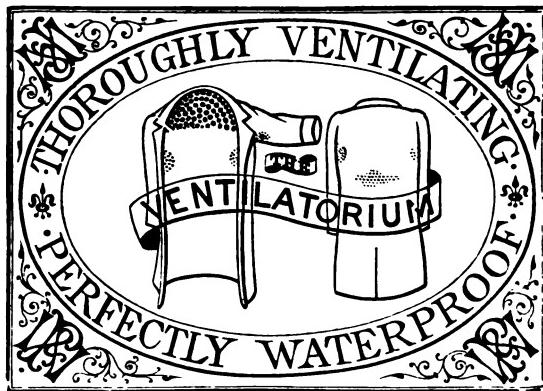
THOMSON'S CELEBRATED CLOVE-FITTING CORSETS

BRITISH EXHIBITS.

23

404 Bartrum, Harvey & Co., London; and Bradford, Yorkshire.

Manufacturers of Waterproof Garments. Patentees of the Ventilatorium.



Trade Mark.

Agents: Cox & Mailer, 64 Bourke-street West, Melbourne; 189 Clarence-street, Sydney.

405 Campbell, Achnach & Co., 108 Argyle-st., Glasgow.—Waterproof and rubber piece goods.

406 Capon, Heaton & Co., Lifford Mills, Birmingham.—India-rubber for mechanical, surgical, saddlery, gas, bicycle, and water purposes. Agents: Nason & Co., 263 George-st., Sydney.

407 Christy & Co. Ltd., 35 Gracechurch-street, E.C. Factories: Bermondsey-street, London; Stockport, Cheshire.

408 Dixon & Oldham, 5 Ropemaker-st., London.—Straw hats.

409 Hammond, Mrs. W., Muspole-st., Norwich.—Boots and shoes.

410 Holme, G., Bath-street Mills, Derby.—Elastic webs for boots.

411 Hornby & West, Overstone-road, Northampton.—Boots and shoes.

412 Howlett & White, Principal Factories and Offices: Norwich, England. Branch: 118 Queen-street, Glasgow, Scotland. Export Office: 4 Ropemaker's-street, London, England.



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413 Irish Boot Lace Co., Belfast.—Boot laces.

414 Johnson, J. W., & Sons, Great Yarmouth, clothing manufacturers, and makers of the celebrated Yarmouth oilskins.

415 Jones, W., Newlands, Northampton.—Boots and shoes.

416 Leavesley & North, Erskine-st., Leicester.—Boots and shoes.

417 Lennard Brothers, Leicester, England. Manufacturers of Ladies' and Children's Boots and Shoes. Patentees of "Seamless Backs" and "Primur" Boots.—Boots and Shoes.

Special attention to Drying and Packing. For samples, apply Gavin Gibson & Co., Melb.

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- 418 Lilley, Skinner & Colebrook**, Paddington Green, London, and 85 Flinders-street East, Melbourne.—Boot and Shoe Manufacturers.

Sole Makers of the Lily Brand,



which may be obtained of the leading Boot Dealers throughout Australia.

- 419 Marlow, John, & Son**, Phoenix Shoe Factory, Northampton, and 2 and 3 Eldon-st., Finsbury, London, E.C.—Manufacturers of all classes of Ladies' Gents', and Youths' Boots and Shoes. Special Exhibit of the celebrated "Acme" Brand. Representative: Mr. Horton Holder, 833 Pitt-street, Sydney.

- 420 Michaelis, Hallenstein, & Co.**, 17, 18 Basinghall st., London.—Boot and shoe lasts, trees, and jacks.

- 421 Pollard & Son**, St. Michael's-rd., Northampton.—Gentlemen's and youths' hand-sewn boots and shoes.

- 422 Randall, H. E.**, Lady's-lane, Northampton.—Boots and shoes, lawn tennis and racquet shoes.

- 423 Shand, Mason & Co.**, London.—Helmets.

- 424 Smith, S., & Co.**, 31 Great Eastern-st., London.—Boots and shoes.

- 425 Smith, Faire and Co.**, Wimbledon-street, Leicester, England.—Children's Boots and Shoes. Wholesale Agents for Australia and New Zealand: Messrs. Warren & Rown, Barrack-street, Sydney.

- 426 Snow, T. F.**, Great Bollater-road, Brixton, London.—Boot protectors, tips, and lasts.

- 427 Stead, Simpson & Nephews**, Belgrave-gate, Leicester.—Boots and shoes.

- 428 Taylor, Richard**, Victoria Factory, Northampton, England.—Boots and Shoes. Sole Manufacturer of the Celebrated Brands, "THE RELIANCE," "WIDE TRAD." "ANATOMICAL RTN," "THREE-STAR," & "THE PERFECTION" TENNIS & ATHLETIC SHOE. Also high-class Hand-sewn Work.

- 429 Vernon, R., & Co.**, Mill Factory, Stow.—Boots and shoes. Agents: Gavin Gibson & Co., 36 Elizabeth-st., Melbourne; Sydney, and Christchurch (New Zealand).

- 430 Watkin, L., & Sons**, Wellingborough, England. Boot and Shoe Upper Manufacturers, Tanners and Curriers. Agents for New South Wales: Messrs. Johnson & Sons, Park-street, Sydney; for Victoria: Mr. J. J. Tomlin, Richmond, Melbourne.—Boot uppers and leather. Agents: Welch, Perrin & Co., Moray-st., South Melbourne.

Class 37.—Jewellery and Precious Stones.

- 431 Fedengreen, H.**, Ely House, Charterhouse-st., Holborn Circus, London.—Jewellery.

- 432 Fraveati & Santawaria**, 65 Hatton-garden, London.—Pompejan and Etruscan gold and silver filigree work, &c.

- 433 Gregory, J. R.**, 88 Charlotte-st., Fitzroy-square, London.—Specimens of diamonds, exhibiting natural crystals.

- 434 King, W., & Co.**, 50 Red Lion-st., Clerkenwell, London.—Jet manufactured brooches, ear-rings, bracelets, and silver jewellery.

- 435 Lirschfeld, G.**, 15 Osery-crescent, Camden Town, London.—Plated and imitation jewellery.

- 436 Moore, H.**, St. Barbe.—Queensland precious opals, mounted and unmounted.

Class 38.—Portable Weapons, and Hunting and Shooting Equipments.

- 437 Alcock, S., & Co.**, Redditch. Manufacturers of Fishhooks, Fishing Rods, Lines, Reels, Baits, Flies, and Fishing Tackle of every description.—Fishing Tackle.

The largest Manufacturers of Fishing Goods in the world, employing five hundred persons, having a branch house in Toronto, Canada, and a silkworm-gut factory at Murcia, Spain.



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Representative: Mr. J. D. Wragg, 15 Bourke-st. West, Melbourne.

- 438 Aluminium Crown Metal Co. Ltd.**, 34 St. Mary Axe, London.—Revolvers, guns, and fishing tackle in aluminium brass.

- 439 Bartleet, William, & Sons**, Abbey Mills, Redditch.

Established, A.D. 1750.
Needles, Sewing-machine Needles, Needle Cases, Crotchet Hooks, Fish Hooks, Fishing Tackle.

Self-threading Needles made for upwards of thirty years.

Only Gold Medal for Needles, Paris, 1878.
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Agent for Australasia and New Zealand:
Henry Lister—Melbourne, 1 Flinders-lane West; Sydney, 56 Clarence-st.; Adelaide, Grenfell-st.

- 440 Bond, E.**, 15 Sand-street, Birmingham.—Single and double breechloaders.

- 441 Braendlin Armoury Co. Ltd.**, Lower Loveday-st., Birmingham.—Sporting rifles, revolvers, and repeating pistols.

S. & H. HARRIS'S HARNESS COMPOSITION.

BRITISH EXHIBITS.

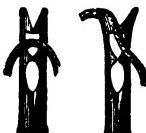
25

- 442** Cashmore, W., 130 Steelhouse-lane, Birmingham.—Sporting guns, rifles, revolvers, and implements.
- 443** Cley Bros. Ltd., 254 Gray's Inn-road, London.—Ammunition, sporting and military.
- 444** Cogswell & Hainton, 226 Strand, and 142 New Bond-street, London.—Guns, rifles, and revolvers.
- 445** Curtis & Harvey, 74 Lombard-st., London.—Gunpowder (dummy samples).
- 446** Field, A., & Co., Edmund-st., Birmingham.—Sporting guns, breechloaders, and muzzle-loaders.
- 447** Greener, W. W., St. Mary's-square, Birmingham.—Guns, rifles, and revolvers.
- 448** Greenwood & Batley, Albion Works, Leeds.—Cartridges, shells, fuzes, &c.
- 449** Hall, J., & Son, 79 Cannon-st., London; and Faversham, Kent.—Dummy samples of sporting and military powder.
- 450** Jeffries, L., Whittall-st., Birmingham.—Light-weight sporting breechloading guns, hammerless guns.
- 451** Joyce, F., & Co., 57 Upper Thames-street, London, Ammunition Manufacturers.



Sole Manufacturers of Bailey's Patent Gas-check cartridges. Agents: Nason & Co., 263 George-st., Sydney.

- 452** Kames Gunpowder Co., 74 Lombard-st., London.—Gunpowder (dummy samples), and canisters for packing.
- 453** Kirby, Beard & Co., 115 Newgate-st., London, E.C.; and Birmingham, Redditch, and Paris. Manufacturers of Pins, Needles, Hair Pins, Safety Pins, Hooks and Eyes, and Fish Hooks. Sole Manufacturers of the New Self-threading Needle.
- 454** Lane, H., Eagle Works, Wednesford.—Steel traps for catching wild animals.
- 455** Lancaster, C., 151 New Bond-st., London.—Sporting guns, with hammer and hammerless.
- 456** Lewis, G. E., 32 and 33 Lower Loveday-st., Birmingham.—Guns and breechloaders.
- 457** Mason, D., & Sons.—Travelling, hunting, and sporting equipments.
- 458** Milward, Henry, & Sons, Washford Mills, Redditch.—Manufacturers of Needles and Fish Hooks.
SPECIALTIES.—The Patent Wrapped and Celebrated Egg-Eyed Needles. Sixteen Prize Medals.
SPECIAL SPECIALTY.—THE Calyx-Eyed Needle.



This Needle threads without threading. By drawing the cotton through the slit above the eye, it holds the cotton firmly and works smoothly. Agents: Welch, Perrin & Co., Moray-street, South Melbourne.

- 459** Mole, Robt., & Sons, Granville-st., Birmingham, Principal Contractors to the War and India Offices.

Swords, Cavalry and Infantry, for Service and Presentation, including the New War-office (1885 Pattern) Cavalry Sword, in which have been adopted the patented improvements of this Firm; Lance, Javelins, &c.; Matchets, as used in the cultivation of Coffee and Sugar, and for other Plantation work. Gold Medals awarded at all the important Exhibitions. The only private establishment in England where Swords complete are made on a large scale, and the only English makers of the New Cavalry Sword.

Mr. H. B. HARDI, Representative.

- 460** Roberts, J., Reliance Works, North-st., Wednesfield.—Steel rabbit-traps and traps for wild animals.
- 461** Rogers, H., Sons, & Co., Wolverhampton, Stafford.—Traps for catching moles, birds, hawks, &c.
- 462** Scott, W. and C., & Son, Premier Gun Works, Birmingham.—Sporting guns, rifles, and revolvers.
- 463** Turner, T., 19 Brook-st., London.—Guns, rifles, revolvers, and their accessories.
- 464** Walker, J., Parker & Co., Chester.—Patent hardened and machine-made shot.
- 465** Ward, & Sons, Central Gun Works, Birmingham.—Guns, rifles, and revolvers.
- 466** Wilson, J., & Co., 63 Leadenhall-st., and Bow, London.—Fishing lines.

Class 39.—Travelling Apparatus and Camp Equipage.

- 467** Avery, W. & T., Digbeth, Birmingham.—Portable machines and scales for commissariat of army.
- 468** Firth, T. F., & Sons, Flush Mills, Heekmondwicke.—Travelling rugs.
Agent: H. Todd, 1 Flinders-lane West, Melbourne.
- 469** Pound, J., & Co., 81, 82, 83 Leadenhall-st., London.—Trunks, portmanteaux, travelling and dressing cases.

Class 40.—Toys.

- 470** Allen, R. F. C., 28 Grove-road, St. John's Wood-road, London.—Cricket bats, balls, stumps, guards, and gloves, and requisites for tennis, &c.
- 471** Allport, D., 72 St. Bennet's-place, London.—Tennis bats and bags.
- 472** Brock, C. T., & Co., South Norwood, London.—Fireworks.
- 473** Burroughes & Watts, 19 Soho-square, London.—Lawn-tennis and cricket requisites.
- 474** Bussey, G. G., & Co. Ltd., Peckham, London.—Goods pertaining to sports and pastimes.
- 475** Clapshaw, A., & Salmon, 5 Cayton-st., City-road, London.—Cricketting goods.
- 476** Cook, W. H., & Co., 297 Victoria Park-road, London.—Cricket bats and other articles connected with British sports.
- 477** Craig, Williamson & Thomas, Elizabeth-st., Melbourne.—Racquet, cricket, lawn-tennis, and football material. Australian agents for Jeffries and Co., Woolwich.
- 478** Dark, F., & Sons, Lord's Cricket Ground, London.—Cricket bats, balls, stumps, leg-guards, and gloves.
- 479** Devereux Bros., 73 Cheapside, London.—Lawn-tennis racquets.

S. & H. HARRIS'S HARNESS LIQUID FOR HARNESS

S. & H. HARRIS'S EBONITE WATERPROOF BLACKING FOR BOOTS, &c.

"PYRODENE," THE ONLY RELIABLE PREPARATION

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| <p>480 Fortman, Forrester & Co., 20 Newington-causeway, London. Exhibit.</p> <p>481 Green, A. G., & Co., 97 Old Montague-st., Whitechapel, London.—Mechanical and musical tops and other mechanical toys.</p> <p>482 Hitching & Wynn, 23 Ludgate-Hill, London.—Nursery furniture and rocking-horses. Agents: Harry Dix & Co., 65 William-st., Melb.</p> <p>483 Lillywhite, J., Froud & Co., Newington-causeway, London.—Cricket bats, balls, &c.; footballs, and lawn-tennis requisites.</p> | <p>484 Myers, A. N., & Co., 15 Berners-st., London.—Instructive games and toys.</p> <p>485 Patent Racquet Co., St. Bennet's-place, London, E.C.—Tennis racquets.</p> <p>486 Shaw & Shrewsbury, Nottingham.—Cricket, football, lawn-tennis, archery, and general sporting requisites.</p> <p>487 Warsop, B., & Son, 36 Charles-st., St. John's Wood, London.—Spring-handle cricket bats and set of wickets.</p> <p>488 Wright, J., Birmingham.—Tennis racquets and fenders.</p> |
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VI.

Raw and Manufactured Processes and Products.

Class 41.—Products of the Cultivation of Forests and of the Trades appertaining thereto.

- 489 Gray, A., Bromsgrove-street Works, Birmingham.—Brooms and brushes.

Class 42.—Products of Hunting, Shooting, Fishing, and Spontaneous Products. Machines and Instruments connected therewith.

- 490 Creswell Bros., 2 Red Lion-square, London.—Sponges of all kinds, from Greece, Turkey, the Bahamas, Florida, and Cuba.

- 491 Eden, Lady, 9 Queen's Gate-place, London.—Pearline, novel method used for decorating metal plates.

Class 43.—Agricultural Products not used for Food.

- 492 Cahn & Stern, 5 Trinity-square, London, Cigar importers. Factory, Mannheim, Germany. Melbourne Agents: Messrs. Rosenthal, Aronson & Co.—Exhibit.

- 493 Coen, L., 33 Victoria-parade, Torquay.—A model of Sandringham, or Marlborough House, made of cigarettes.

- 494 Harrison, W. B., 6 Bridge-st., Sunderland.—Oils.

- 495 Moss, Rimmington & Co., Portholme Mills, Selby.—Flax yarns, twines, shoe-threads.

- 496 Sutton & Sons, Royal Seed Establishment, Reading.—Vegetable and flower seeds, specimens of natural grasses, preserved fodder, flax, hemp, and English-grown tobacco.

- 497 Taverney, H., & Co., Vevey, Switzerland.—Speciality of Cigars for the British Kingdom and its Colonies.

VEVEYANS, VEVEYFINS, &c.
Medals at several International Exhibitions.

- 498 William, Thos. C., and Co., Richmond Va., U.S.A., Tobacco Manufacturers, exhibit a full line of their Manufactured Tobaccos suitable for the Australian Colonies, and samples of Virginia Leaf Tobacco in its Natural State.

- 499 Wills, W. D. & H. O., Bristol and London.—Tobacco, snuff, and cigarettes.

Class 44.—Chemical and Pharmaceutical Products.

- 500 Alexander, Fergusson & Co., M'Alpine-st., Glasgow.—Colours, oils, paints, and varnishes.

- 501 Animal Charcoal Company Ltd., 11 New Gravel-lane, London. Sole Agents for the Australian Colonies: Messrs. Petsch, Doehling & Co., 2 Little Collins-st., Melbourne, and 332 Kent-st., Sydney.

- 502 Apollinaris Co. Ltd., 19 Regent-st., London.—Apollinaris, Friedrichshall, and Hungodjanos water.

- 503 Aspinall, Aspinall & Co., Hollydale Paint Works, Peckham, London.—Specimens of wicker, wood, &c., treated with Aspinall's enamel.

- 504 Atkinson, G., & Co., Southall, Middlesex.—Potassium, iodide, and bromide.

- 505 Barnett & Foster, Eagle Wharf-road, London.—Ingredients for the manufacture of aerated drinks, with samples made from the same.

- 506 Bell Bros., Middlesborough.—Samples of alkali by the Schloesing ammonia process.

- 507 Blacklock & M'Arthur, Tradeston, Glasgow.—White lead, paints, and oils.

- 508 Bowden, F. H., 43 King William-st., London.—Hippacca.

- 509 Brunner, Mond & Co. Limited, Northwich, England.

PURE ALKALI, guaranteed 58 degrees. Equal to 98 per cent. Carbonate of Soda. The strongest and purest form of the article in the market, and, therefore, the most economical for the use of Printers, Bleachers, Wool Scourers, Dyers, Glass, Paper, and Soap Makers. BICARBONATE OF SODA, refined and recrystallised. The purest and cheapest in the market. CONCENTRATED CRYSTAL SODA (sesqui carbonate). By far the purest and cheapest form of Washing Soda. Only 1 lb. of Concentrated Crystal Soda required to do the work of 2 lbs. of Washing Soda. SODA CRYSTALS of the finest quality.

Day & Martin's Paste Blacking in Tins.

BRITISH EXHIBITS.

27.

510 Burroughs, Wellcome & Co., Manufacturing Chemists, Snow Hill Buildings, London, E.C.



AUSTRALASIAN OFFICES:
117 COLLINS STREET WEST,
MELBOURNE, VICTORIA.



ABSORBENT COTTON.

BEEF AND IRON WINE (Burroughs).

EXT. PUMILIO PINE (Burroughs).

FLORIDA WATER (Murray & Lanman).

LANOLINE SOAP.

PAPER-FIBRE LINT.

PEPSIN IN SCALES (Fairchild).

LUNDORG'S PERFUMES.

SACCHARIN TABLOIDS.

ANTIDOTE CAKE (Burroughs).

COD LIVER OIL (Keppler).

CHLORIDE OF AMMONIUM INHALER.

EUCALYPTIA (Eucalyptine), Pure Oil Eucalyptus Globulus.

EXTRACT OF MALT (KEPLER).

KEPLER SOLUTION. (Cod Liver Oil in Extract of Malt).

LANOLINE (Liebreich).

MEDICAL POCKET CASES.

"CONGO" MEDICINE CHEST.

ZYMINA (Extractum Pancreatis).

Colgate's CASHMERE BOUQUET Soap and Perfume.

PURE TEREBENE (Burroughs).

PEPSIN TABLOIDS.

SYR: HYPOPHOS: COMP: (Fellows).

STROPHANTHUS (Tincture and Tabloids).

VOICE TABLOIDS (Cocaine, Chlor., and Borax).

PEPSIN ESSENCE (Elixoid of Pepsin).

"TABLOIDS" and "TABLETS" of Compressed Drugs.

VALOID FLUID EXTRACTS.

PINOL (Burroughs).

13 Diplomas (Highest Awards) and 40 Gold and Silver Medals awarded at International, Sanitary, and other Exhibitions.

511 Callender's Bitumen, Telegraph & Waterproof Co. Ltd., 101 Leadenhall-st., London. Representatives: R. B. Baynes & Co., 7 Gresham st., Sydney, and at Melbourne. Manufacturers of Pure Bitumen Damp Course, Damp-resisting Solution, and Anti-fouling Paint for Ships' Bottoms.

512 Chambers, J., & Co. Ltd., Bromley-by-Bow, London.—Soft soap, saponine, turpentine, paints, and oils.

513 Clarke, S., Child's-hill, London.—Candles and night-lights.

514 Clarke, R. J., West Ham Abbey, London.—Pyramid, showing the application of varnish and materials used in its manufacture.

515 Collier, J., & Sons, Commercial-st., Spitalfields, London.—Baking powder.

516 Colman, J. & J., 108 Cannon-st., London.—Starch and starch products from rice to the manufactured article.

517 Copal Varnish Co. Ltd., Bankside London.—Varnishes, stains, and colours.

518 Crawford & Co., 27½ Wellclose-square E., London, Improved Patent Carbon Enamel Manufacturers. Agents: Alfred Lawrence & Co., Melbourne and Sydney.

Curing foul and seasoning new Casks, Vats, &c., for Brewers, Vinegar Makers, &c. Splendid preservative and handsome black external coating for Woods and Metals. Used by more than 1200 Brewers, Vinegar Makers, &c., in Great Britain and Colonies.

519 Day & Martin, 97 High Holborn, London, and 61 Commercial-road, Liverpool, England.

TRADE MARK.



REAL JAPAN LIQUID BLACKING, as supplied to the Queen.

OIL PASTE BLACKING. Preserves, Nourishes, and Softens Leather.

KID RENOVATING POLISH, for Ladies' and Children's Boots and Shoes, and all kinds of Leather Goods.

BRUNSWICK BLACK, for Dining and Drawing Room Stoves, and all kinds of Ironwork.

BERLIN BLACK, for putting a permanent and brilliant Jet Black Enamel on all kinds of metal.

BRASS BURNISHING PASTE, for polishing Tin, Brass, or Copper.

HARNESS COMPOSITION.

JET BLACK OIL, for Harness.

WATERPROOF DUBBIN, for Boots.

POUCH BLACKING, for Military Belts and Pouches.

KID REVIVER in Tins.

PATENT-LEATHER POLISH.

JAPANESE WATERPROOF BLACKING surpasses all others.

POLISHING CREAM.

. Day & Martin's Kid Renovating Polish.

LAMPLOUGH'S
PYRETTIC
SALINE

- 520 Dawson, J., & Co., 6 Morrison's-court, Glasgow.—Dyegoods, manufactured and unmanufactured; colours, etc.
 521 Day, Son & Hewitt, 22 Dorset-st., London.—Medicines for cattle.
 522 Deniford, T., & Son, Russell-st., Plymouth.—Mineral and aerated waters.
 523 Domestic Engineering and Sanitary Appliances Co., 24 High Holborn, London.—Ventilating and sanitary apparatus.
 524 Duckett & Co., Heesley, Sheffield.—Ink powders, in tins, for making various coloured inks.
 525 Elliman, Sons & Co., Slough, Berkshire.—Embrocation for the cure of sprains, cuts, &c., in horses and cattle. Agents: Harry Dix & Co., 65 William-st., Melbourne.
 526 Fleming, A. B., & Co., Caroline Park, Edinburgh.—Antifriction greases, etc.
 527 Foden, G. J., Queen's-terrace, Ealing, Middlesex.—Enamel paints, enamels, French polish, furniture cream, and spirit varnishes.
 528 Fordham, W. B., & Sons Ltd., York-road, King's-Cross, London.—Oilmen's sundries, glue, soaps, &c.
 529 Gaskell, Deacon & Co., Alkali Manufacturers, Lancashire.—Caustic soda, refined alkali, soda ash.
 530 Goddard, J., Station-st., Leicester.—Plate powder, furniture cream, &c.
 531 Gulliver, S., & Co., Aylesbury.—Mineral waters.
 532 Griffiths Bros. & Co., 4, 5, and 6 Dashwood House, New Broad-st., London, E.C., Paint Manufacturers.



Late Griffiths, Fletcher & Berdoe. Estab., 1869. Factories: Bermondsey and Blackfriars, London, S.E. Griffiths' Improved Zinc White "Aqual" Washable Water Paint, "Pyrodene" Fireproof Paint and Liquid, Enamel Paints for Baths, to stand Boiling Water. "Galvanite," for Galvanised Iron and all Metal Work. Silicate, Lead, Anti-fouling Paints, Varnishes, &c. Eleven Prize Medals.

- 533 Harris, S. and H., Mansell-street, London, England—
 EBNITE
 WATERPROOF
 BLACKING
 for boots, shoes, harness, and all black leather goods.

- HARNESS COMPOSITION (waterproof).
 SADDLE PASTE (waterproof).
 POLISHING PASTE, for cleaning metals and glass.

- HARNESS LIQUID, or self-shining jet.
 JET BLACK OIL, for harness.
 POUCH BLACKING, for military belts and pouches.
 SHOE BLACKING (liquid and paste).
 DUBBIN (waterproof), for boots and harness.
 BLACK DYE, for staining leather.
 STEEL POWDER, for polishing bright steel goods.
 PLATE POWDER (non-mercurial).
 HENRY'S INDIARUBBER VARNISH, for carriage heads and aprons.
 BRUNSWICK BLACK, for stoves, grates, and all kinds of iron-work.
 BERLIN BLACK, for beautifying stoves, fenders, all kinds of ornamental castings, iron-work, &c.
 FURNITURE POLISH.
 BREECHES POWDER, for cleaning hunting-breeches, gloves, &c.
 All as exhibited.

- 534 Hertz & Collingwood, 101 Leadenhall-st., London.—Cod-liver oils.

- 535 Hoby, G., & Co. Ltd., 4 Great Queen-st., London.—Blacking and dubbin. Agents: Welch, Perrin & Co., Moray-st., South Melbourne.
 536 Hubbuck, T., & Son, 24 Lime-st., London.—Paints, varnishes, and oils.

- 537 Hydroleine Co., London and Leicester.—Soap-powder, disinfecting powder, &c.

- 538 Indiarubber, Guttapercha, & Telegraph Works Co. Ltd., Silvertown.—Submarine cables. THE INDIARUBBER, GUTTAPERCHA, and TELEGRAPH WORKS CO. LIMITED, SILVERTOWN, LONDON, E.

Indiarubber and Telegraphic Goods.

The articles shown are mostly taken from stock at the Australian Depot of the firm (127 RUSSELL-STREET, MELBOURNE), and not specially prepared for exhibition. They include

Indiarubber and Canvas Hose, Belting, Packing, Insertion Sheet;

Indiarubber Valves, Sheet, Washers, Mats, Gas Tubing, Tennis Balls; And an immense variety of other articles. A Trophy, showing specimens (in plan and section) of a number of the Submarine Cables made and laid by this firm. Telegraphic Apparatus, such as Morse Instruments, Galvanometers, Bells, Pushes, &c.

See also Exhibit in the Victorian Court (Class 36), where Waterproof Clothing of every description may be seen, made up in Melbourne from Cloth sent out from the Silvertown Works.

MELBOURNE BRANCH: 127 RUSSELL STREET. J. WILSON, MANAGER.

- 539 Jekyll, Glasier & Co., Cornhill, Lincoln.—Sheep dip and medicines for horses.
 540 Jennings, T., Brown-st., Cork, Ireland.—Magnesia, in powder and liquid.
 541 Jenson & Nicholson, 65 Goswell-road, London.—Varnishes, japans, and colours.

- 542 Johnson Bros., Cleveland Works, Hull.—Oils, paints, and varnishes.
 543 Keen, Robinson, Belville & Co., 6 Garlick-hill, London.—Laundry blue.
 544 Kirby, H. T., & Co. Ltd., 14 Newman-st., London.—Medicines.

SEE NOTICE ON PAGE 29.

PURE FLUID MAGNESIA.

BRITISH EXHIBITS.

29

545 Lamplough, H., Limited, 113 Holborn, and 9a Old Broad-st., London, England.

LAMPLOUGH'S PYRETIC SALINE.

This scientifically originated and prepared article is strongly recommended by numerous eminent medical gentlemen, many of whom have borne written testimony to its value. It has been of inestimable benefit to multitudes, and has a world-wide reputation; the proprietors have received, and are receiving, numerous letters testifying to its medical and hygienic properties, never publishing a testimonial under an assumed name as other vaunted and much-advertised medicines do. The public should not accept such testimony, so very easily manufactured *ad lib.* by the unscrupulous. Its usefulness is very varied. As a means of quenching thirst, it is perhaps unrivalled, whilst for correcting disorders of the Digestive Organs, Purifying, Cooling, and Invigorating the Blood, it is most efficacious. It controls Fevers, Feverish Colds, and is a specific in Smallpox, Yellow and Scarlet Fevers. Ordinary ailments succumb to it, so that as a domestic medicine it is simply invaluable for all kinds of "out or sorts" feelings. For use in the nursery, it is beyond all praise, as children will ask for it. Settlers in Up-country Stations will find it an important addition to Home Comforts and Daily Requisites. It counteracts the prejudicial effects of water not absolutely pure. On sale throughout the Australian Colonies and the world.

546 Langton, Eddin, Hicks & Clark, 230 Upper Thames-st., London.—Drugs and chemicals.

547 Laws, T. B., 150 and 152 Burdett-road, London.—Aerated waters.

548 Lilley, Skinner & Colebrook, Harrow-road, London.—Brixby's royal polish, for boots and shoes.

549 May & Baker, Battersea, London.—Chemicals.

550 Morris & Griffin, Ceres Works, Wolverhampton.—Blackings, inks, soaps, &c.

556 Pickering, Joseph, & Sons, Albyn Works, Sheffield.

551 Morris, Little & Son, Doncaster. Powder and Soap Sheep Dip and Disinfectants.

LITTLE'S PATENT Fluid DIP; manufactured by the Exhibitors. One gallon, mixed with cold water, will dip 100 to 120 sheep. It is an oily, non-poisonous fluid for promoting the growth of wool, stimulating the fleece, and general sheep-dipping purposes. Also a valuable wash for cattle, horses, dogs, &c.

LITTLE'S PATENT POWDER DIP; manufactured by the Exhibitors. One packet will dip 25 sheep. It prevents the fly striking, kills ticks, cures scabs, and mixes instantly with cold water.

LITTLE'S SOLUBLE PHENYLE; manufactured by the Exhibitors. Non-poisonous disinfectant, deodoriser, and antiseptic. Superior to carbolic acid for stables, drains, sewers, cesspools, ash pits, and all household and medical purposes. Diluted with 100 times its own bulk of cold water, it makes most powerful disinfectant.

LITTLE'S SANITARY PHENYLE POWDER DISINFECTANT; manufactured by the Exhibitors.

552 Murray, Sir James.—Pure Fluid Magnesia. Sir James Murray & Son, Chemical Works, Temple-st., Dublin.

The original article, as prepared by the Inventor, Sir James Murray, M.D. For over 60 years in use as an excellent remedy in cases of Acidity, Indigestion, Heartburn, Gravel, and Gout.

Sold by all respectable chemists, in large-sized Bottles (the 1s. size containing nearly double the quantity usually sold at that price), at 1s., 2s. 6d., and 3s. 6d. each. Also in Winchester quarts for Dispensary and Hospital use.

Caution.—Observe that the Signature of the Inventor is on every label.

Gold Medals: Dublin, 1882; Boston, 1883; London (Int. Exhib.), 1884.

Sole Agents for Victoria: Rocke, Tompsitt & Co., Melbourne.

553 McDougall Bros., 10 Mark-lane, London.—Sheep dip and cattle dressing.

554 Nixey, W. G., 12 Soho-square, London.—Black lead.

555 Paine, T. C., High-st., Kingston, Hertfordshire.—"Eradicator," for preserving and cleansing wearing apparel, &c.



HAVRE, GOLD MEDAL, 1887.

NEEDHAM'S



POLISHING



PASTE.

The Oldest and Best POLISHER of Brass, Copper, Tin, Britannia Metal, &c., in the World.

PICKERING'S Furniture Polish, Razor Paste, Plate Powder, Harness Blacking, Brunswick Black, Metal Polishing Pomade, "Ye Olde Oak" Furniture Paste.

"BLANCO," a new preparation for Whitening Buff and White Leather, such as Military Equipments, White Helmets, &c., &c.

Agents: Messrs. M'Lean Bros. & Rigg, London, Melbourne, &c.

SIR JAMES MURRAY'S PURE FLUID MAGNESIA.

ROCKE, TOMPSITT & CO., AGENTS, MELBOURNE.

SIR JAMES MURRAY'S PURE FLUID MAGNESIA.

80

MELBOURNE CENTENNIAL INTERNATIONAL EXHIBITION.

- 557 Powell & Scholefield**, Edge Hill Chemical Works, Liverpool, England, makers of pure chemicals for brewers. Agents: A. Lawrence & Co., Melbourne and Sydney.
- 558 Price's Patent Candle Co. Ltd.**, Belmont Works, Battersea, London.—Candles, oils, soaps, and glycerine.
- 559 Quibell Bros.**, Chemical Works, Newark.—Sheep dips, manures, and glues.

- 560 Rose, Sir W. A., & Co.**, 66 Upper Thames-street; and Rose's-wharf, London.

Burning and Lubricating Oils, Patent Infusible Railway Grease, Varnishes, "Harp Brand" Colza Oil, White Lead, White Zinc, Paints, and Colours, Linseed and Boiled Oils. Oil Boilers and Refineries.



This collection includes:—

LIGHTHOUSE COLZA OIL, Sir W. A. Rose & Co.'s "Harp Brand," extra fine quality, such as is used in British and Foreign Lighthouses, also in those of the various Colonies of Australia and New Zealand. This Oil is now being supplied by them under contract with the Trinity Corporation for the English Lighthouses, also to the Corporation of the Scotch Lighthouses.

INVISIBLE RAILWAY GREASE, Sir W. A. Rose & Co.'s Patent, melting point 168 to 170 degrees Fahr. Specially adapted for hot climates or high speeds. Repeated experiments have shown a saving of 50 to 75 per cent. as compared with other greases.

WAGON GREASES of various descriptions and finest qualities

ENGINE OILS of various viscosities. Thickened by special process for lubricating purposes. These have very high lubricative properties, and will not clog. Superior in many respects to much more expensive Oils.

THERMO PLASTIC PUTTY for Greenhouses, Railway Roofs, &c. When heated by the sun's rays it becomes sufficiently soft to allow of expansion of glass, and hardens again with cold. By thus yielding to expansion it prevents breakage of glass and leakage.

LINSEED OIL, BOILED OIL, TURPENTINE, genuine and of finest quality for all kinds of painters' and decorators' purposes.

WHITE LEAD, WHITE ZINC, and every description of coloured paints carefully ground and compounded of the very best materials.

SILICATED OXIDE IRON PAINT.—This is a special preparation of Silica and Oxide of Iron, forming an exceedingly durable and economical paint, having a chemical affinity for ironwork, for which it is, therefore, specially adapted; but it is also used with advantage on Wood, Stone, &c. It is made in various shades of colour.

MIXED PAINT, ready for use, in tins of 1 lb., 2 lbs., and upwards, with moveable tops. Bright colours and durable quality. The tins are perfectly air tight, and are easily opened or closed.

VARNISHES, of finest quality, for Carriage Builders, House Decorators, &c. These are made of the very finest picked gums by the most approved processes. All ingredients are warranted genuine.

- 561 Richardson, J., & Co.**, 10 Friar-lane, Leicester.—Chemical and pharmaceutical preparations.

- 562 Sanders, E. F.**, 27 Brook-st., Holborn, London.—Lignozote, for lining the inside of vats and casks.

- 563 Spratt's Patent Ltd.**, Henry-st., Tooley-st., London.—Medicines for human and animal use.

- 564 Suter, Hartmann & Co.**, 18 Billiter-street, London.—Hartmann's Genuine Rahtjen's Composition for Ship's Bottoms. Adopted by most Governments, including the British, Indian, and Colonial. Is also used by nearly all the most important Steamship Companies throughout the World, among which may be mentioned the Peninsular and Oriental Steam Navigation Co., Orient Steam Navigation Co., North German Lloyd, Union Steam Ship Co. of New Zealand, &c., &c. Melbourne Agent: Captain Houston, The Exchange. Agents at all important Ports of the World.

- 565 The Greenbank Alkali Works Co. Limited**, St. Helen's, Lancashire, England.

DOUBLE-REFINED POWDERED 98 PER CENT. CAUSTIC SODA.—Specially packed for household use and small consumers in half-pound, one-pound, two-pound, and ten-pound cans. Makes Soap, without boiling or special apparatus, from Waste Fat or Tallow. Instantly softens the Hardest Water, prevents Scale in Steam Boilers. Full directions for use with each can.

PURE CAUSTIC POTASH.—In one pound, five-pound, twenty-pound, and fifty-pound cans. A specialty for Fleece Scouring, also for making Wool-washing Soap and Sheep Dip for Scab, &c., from Waste Fat or Tallow without trouble. Full directions with each can.

WOOL SAMPLES, showing wool before and after washing by this method.

REFINED PEARL ASHES.—A specialty for Washing Flannels and improving hard Soap. In half-pound, one-pound, five-pound, and ten-pound cans.

CHLORIDE OF LIME, EXTRA STRENGTH.—In quarter-pound, half-pound, one-pound, and ten-pound air-tight zinc cans. Will keep for any length of time. A specialty for Disinfecting Sick Rooms, Sinks, or Closets, and preventing Spread of Infectious Diseases amongst Animals, for Laundry use, and driving away Rats. Full directions for use on each can.

Descriptive Pamphlets on Sheep Washing, Making Soap, and Water Softening, containing much valuable information, sent free on application.

- 566 The St. Bede Chemical Co. Limited**, 1 St. Nicholas Buildings, Newcastle-on-Tyne, and 101 Leadenhall-st., London, E.C.

SULPHATE OF SODA, of exceedingly fine quality, for glass makers' use. **GLAUBER SALTS**. **SODA ASH**, for paper and soap makers, bleachers, and dyers, specially prepared by a patent process ensuring exceptional purity, especially absence of Sulphides.

REFINED ALKALI SODA CRYSTALS, the cheapest form of Soda for domestic purposes.

SULPHIDE OF SODIUM, a new depilatory, largely used for depilating hides and skins. **BLEACHING POWDER**, of high strength and great density. **CHLORATE OF POTASH**, of great purity, for Pharmaceutical purposes and match making. **DISINFECTANT**; the only disinfectant now before the public which really destroys the germs of disease. **SULPHIDE AND CHLORIDE OF BARIUM**, **SULPHATE OF BARIUM**, **SULPHATE OF COPPER**, and **SULPHATE OF IRON**.

ROCKE, TOMPSITT & CO., AGENTS, MELBOURNE.

50 per cent. Cheaper than any other.

No Oil or Turpentine required.

GRIFFITHS' "AQUOL" PAINT,

BRITISH EXHIBITS.

31

567 The Union Alkali Co., Soho Works, Manchester, England, make and pack the following articles in three-quarter-pound, two-and-a-half, four-and-a-half, and twelve-pound cans, with full directions on each can:—

EXTRA-REFINED POWDERED 98½ PER CENT. CAUSTIC SODA.—Will make Soap in any Vessel without Boiling, from Oil, Tallow, or Waste Grease. Will soften the Hardest Water. Used in Steam Boilers to Prevent Scale.

EXTRA-REFINED CAUSTIC POTASH.—Also makes Soap in a similar manner, and from the same materials as the above. Used for Wool Washing, Fleece Scouring, and making Sheep Dip. Removes Slime from Brewer's Vessels.

EXTRA-REFINED PEARL ASHES.—For improving Soap, Washing Woolen Goods and Flannels.

PERMANGANATE OF SODA.—The best and cheapest Disinfectant for general use. Being Inodorous, it is specially adapted for Sick Rooms, Schools, Closets, &c. Free from taint Feeding-Bottles, Meat, Fruit, Milk, and Butter Utensils. Prevents the Spread of Infectious Diseases.

568 Unique Hygienic Co., 97 Buckingham Palace-road, London.—Hygienic powders, lotions, &c.

569 Walker (J.), Parker & Co., Chester.—White lead, &c.

570 Whiffen, T., Battersea, London.—Quinine, and all the cinchona alkaloids and preparations.

Class 46.—Leather and Skins.

571 Bacon, T. & G. A. & Co., Church-st., St. John's, Southwark, London.—Pure oak-bark tanned sole leather.

572 Bower, J., & Sons, Dover Mills, Huddersfield.—Buckskins, whipcord, etc.

573 Calverley, L., & Sons, Colne Valley Mills, Huddersfield.—Doeskins, etc.

574 Evans, T., & Son Ltd., Sawston, Cambridgeshire.—Chamois skivers, crust and coloured hat linings, embossed leathers.

575 Gibbs, G., & Son.—Manufacturers of leather, vellum, and parchment, 29 St. Bride-st., Ludgate Circus, London, E.C. Represented by William Detom, 8 Flinders-lane East.

576 Lilley, Skinner & Colebrook, Harrow-road, Paddington, London.—Leather and skins.

577 Mason, D., and Sons.—Leathers.

578 Walker, J., & Sons, Plover Mills, Lindley, Huddersfield.—White bearskin, sealette, etc.

579 Wilson, Walker & Co., Sheepscar Leather Works, Leeds.—Leather goods, kid, calf, &c., for boot manufacturers, chamois leather.

VII.

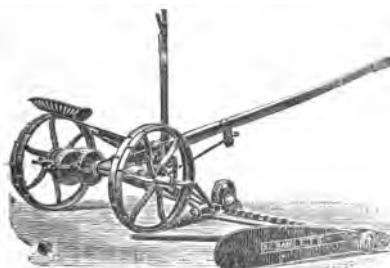
Machinery—Apparatus and Processes used in the Mechanical Industries.

Class 47.—Agricultural Implements and Processes used in the Cultivation of Fields and Forests.

580 Anglo-Continental (late Ohendorff's) Guano Works, 15 Leadenhall-st., London.—Samples of dissolved Peruvian guano and chemical manures.

581 Aultmann, Miller & Co., Buckeye Works, Akron, Ohio, U.S.A.—Manufacturers of Buckeye Mowers, Reapers, and Self-Binders. General Agent for Australasian Colonies: H. S. Chipman, Sydney, New South Wales.

582 Barnlett, A. C., Thirsk, Yorkshire.—Reaping and Mowing Machines.



IRON FRAME GRASS MOWER.
MOWER WITH ENCLOSED GHAR.
REAPER AND MOWER COMBINED.
SELF-RAKING REAPER.
SHEAF-BINDING REAPER.

583 Burys & Co., Regent Works, Sheffield.—Scythes, mowers, reaper sections, &c.

584 Clayton & Shuttleworth, Lincoln.—Steam-engines and thrashing and finishing machines. Agents: Welch, Perrin & Co., Moray-st., South Melbourne.

585 Coleman & Morton, Chelmsford.—Cultivators, jointed-folding harrows, pitchforks, &c.

586 Corbett, T., Perseverance Iron Works, Shrewsbury.—Harrows, and combined horse hoe and ridging ploughs.

587 Elwell, E., Wednesbury.—Spades, shovels, and plantation hoes.

588 Garfitt, T., & Son, Cross Scythes Works, Sheffield.—Sickles, scythes, hoes, reaping and mowing machines.

589 Garrett, R., & Sons, Leiston, Suffolk.—Corn and seed drills, sowing and thrashing machines, and portable steam-engines.

590 Gilpin, W. (senr.), & Co. Ltd., Canneck, Staffordshire.—Hay and digging forks, slashers, furze hooks, &c.

591 Hornsby, R., & Sons Ltd., Grantham, England.



Ploughs, Mowers, and Fittings for Ploughs.

Griffiths Bros. & Co., Dashwood House, London, E.C.

- 592** Hunt, R., & Co., Earls Colve, Essex.—Horse-power thrashing machines, rakes, &c.
- 593** Jeffery & Blackstone, Stamford.—Steam-engines and Stamford horse-rakes.
- 594** Keane, R. F., Cappoquin, Ireland.—Combined mower and reaper, horse-rake and hay-collector, harrows, &c.
- 595** Kearsley, G., Ripon, Yorkshire.—Sheaf-binding harvester, combined mower and reaper, &c. Agents: Welch, Perrin & Co., Moray-st., South Melbourne.
- 596** Ladd, J. H., & Co., 116 Queen Victoria-st., London.—Perpetual press, worked by steam-power, for baling hay, straw, or other produce.
- 597** Lyndon, W. A., Minerva Works, Birmingham.—Spades, shovels, and hoes.
- 598** Marshall, Sons & Co. Ltd., Britannia Iron Works, Gainsborough.—Steam engines, threshing machines, &c.
- 599** Parkes, A. & F., & Co., Birmingham.—Spades, shovels, digging, manure, and hay forks.
- 600** Pierce, P., & Co., Wexford, Ireland.—“Orion” mowing and reaping machine combined, and grass-mowing machine.
- 601** Quibell Bros., Chemical Works, Newark.—Manures suitable for the colonial trade.
- 602** Ransome, A., & Co., King’s-road, Chelsea, London.—Combined steam tree-feller and log cross-cut saw. Agents: Welch, Perrin & Co., Moray-st., South Melbourne.
- 603** Ransomes, Sims & Jefferies Limited, Orwell Works, Ipswich.—Steam threshing machines, ploughs, &c. (*see page 33*).
- 604** Robey & Co., Globe Works, Lincoln.—Portable engines and threshing machines.
- 605** Ruston, Proctor & Co., Sheaf Iron Works, Lincoln.—Portable engines, finishing and threshing machines.
- 606** Samuelson & Co., Banbury, Oxfordshire.—String sheaf binding harvester, combined grass-mowing and reaping machines.
- 607** Sellar, G., & Son, Huntly, Scotland.—Ploughs, harrows, and scufflers or horse-hoes.
- 608** Sorby, R., & Sons, Carver-st., Sheffield.—Selection of best edge tools, augurs, sheep shears, garden tools, scythes, hooks, planes, engineers’ tools, circular, one-man cross-cut, vertical, cross-cut, and hand saws.
- TRADE MARK—“KANGAROO.”
- 609** Spencer, W. H., & Co., Hitchin, Hertfordshire.—Portable steam engine and finishing machines. Agents: Welch, Perrin & Co., Moray-st., South Melbourne.
- 610** Staniforth, T., & Co., Hackenthorpe, near Sheffield.—Corn scythes, reaping hooks, &c.
- 611** Sutton & Sons, Royal Seed Establishment, Reading.—Concentrated manures and apparatus for testing the germinating power of seeds.
- 612** Turner, E. R. & F., Ipswich.—Steam engine and boiler. Agents: Welch, Perrin & Co., Moray-st., South Melbourne.
- 613** Tyzack Sons & Turner, Little London Works, Sheffield.—Scythes, reaping-hooks, and other agricultural implements.
- 614** Ward & Payne, Sheffield.—Spades, shovels, hoes, digging, hay, and manure forks, reaping and bush hooks, &c.
- 615** Wild, J. & F. C., Borussia Works, Sheffield.—Plough plates, bent, rough, and polished.
- Class 48.—Apparatus and Processes used in Agricultural Works, and in Works for the Preparation of Food, Irrigation of Land, &c.**
- 616** Aitken, M’Neil & Co., Govan, Glasgow.—Model of Thomson & Black’s patent fine-roller sugar-cane mill, with drawing to illustrate same.
- 617** Anti-Friction Conveyor and Grinding Machinery Co. Ltd., 16 Mark-lane, London.—Electric disintegrators.
- 618** Armfield, J. J., & Co., Ringwood, Hampshire, and Fordingbridge, Salisbury.—Stone meat-scalper and offal-divider, &c.
- 619** Baker, J., & Sons, 58 City-road, London.—Biscuit and bread making machinery, ice-cream freezing machines, &c.
- 620** Barnett & Foster, Eagle Wharf-road, London.—Soda-water machine.
- 621** Bradford, T., & Co., London, Manchester, Liverpool, and Salford.—Steam laundries, washing and wringing machines, &c.
- 622** Bratby & Hinchliffe, Manchester, and 146 Minories, London, E.C.—Soda-water Machinery, “Monarch” Turnover Filling Machine, Rapid Cork-bottling Machine, Bottles, Boxes, and Cases, Essential Oils, Soluble Fruit Essences, Citro-chloric Acid, and every requisite for the Mineral-water, Beer, and Wine-bottling Trades.
- 623** Carter, J. H., 82 Mark-lane, London.—Middlings crushers, semolina purifiers, and disintegrators.
- 624** Corbett, T., Perseverance Iron Works, Shrewsbury.—Curd mill, or breaker and double-chamber cheese presses.
- 625** Gardner, J., & Son, Bradford-street, Birmingham.—Sausage machines, and sausage-filling machines. Agents: Welch, Perrin & Co., Moray-st., South Melbourne.
- 626** Gillman & Spence Ltd., St. George’s-road, Southwark, London.—Machines for bottling beers and cider, and for making aerated waters.
- 627** Green, Thomas, & Son Limited, Surrey Works, Blackfriars-road, London, S.E., and Smithfield Iron Works, Leeds, Yorkshire, Engineers and Machinists.
- SPECIALITIES :—Steam Tramway Engines, Steam Road Rollers, Vertical Engines and Boilers, Hot-water Boilers, Lawn Mowers, Garden Rollers, Sausage-chopping Machines and Fillers, &c., &c.
- Telegraphic Addresses: “Surrey Works, London,” and “Smithfield, Leeds.”
- 628** Green, A. G., & Co., 97 Old Montague-st., Whitechapel, London.—Refrigerator for cooling and preserving fish, meat, cream, &c., without ice.
- 629** Greenwood & Batley, Albion Works, Leeds.—Laubert & Greenwood’s patent oil mill.
- 630** Hardy Patent Pick Co. Ltd., Heeley, Sheffield.—Disintegrators or grinding machinery.
- 631** Hunt, R., & Co., Earl’s Colne, Essex.—Corn-crushing mills.
- 632** Huxham & Browns, Exeter, Leather-Trades’ Engineers (*see page 34*).
- 633** Jeffrey & Blackstone, Stamford, Lincolnshire.—Corn-grinding mill.
- 634** Keane, R. & F., Waterford, Ireland.—Bruising and grinding mills.
- 635** Kent, G., 199 High Holborn, London.—Patent freezing machines, and mincing and sausage machines.
- 636** Martineau & Smith, Holloway Head, Birmingham.—Coffee urns.
- 637** Mason, S., London and Birmingham.—Beer engines, bar fittings, &c.

RANSOMES, SIMS & JEFFERIES LIMITED.

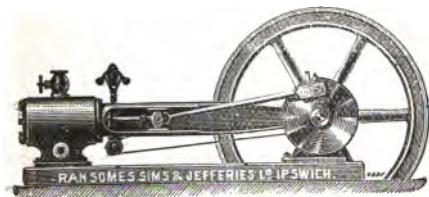
BRITISH EXHIBITS.

33

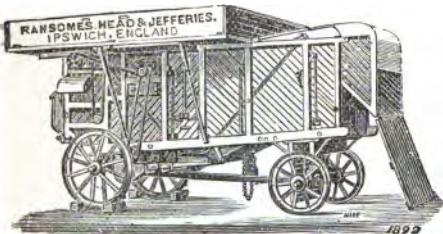
Ransomes, Sims & Jefferies Limited, ORWELL WORKS, IPSWICH. ENGINES FOR INDUSTRIAL AND AGRICULTURAL PURPOSES, STEAM THRASHING MACHINES, PLOUGHS, LAWN MOWERS.



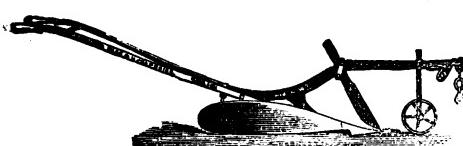
RANSOMES' PORTABLE STEAM ENGINES.
Specially designed for Colonial use.



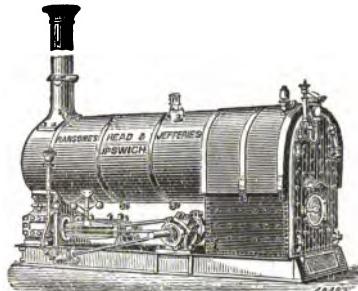
RANSOMES' LONG STROKE ENGINES.
With expansion, also made condensing.



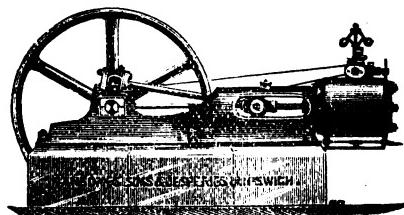
RANSOMES' STEAM THRASHING MACHINES.
With Reciprocating or Rotary Shakers, extra large sieve surface, specially adapted for the Colonies.



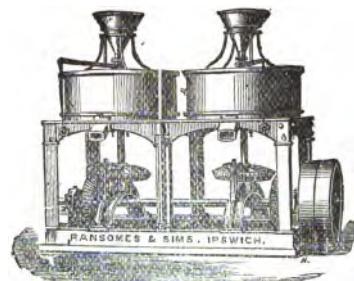
RANSOMES' "AUSTRALIAN" PLOUGHS, SINGLE,
DOUBLE, and MULTIPLE. Also with chilled
Breasts and Shares.



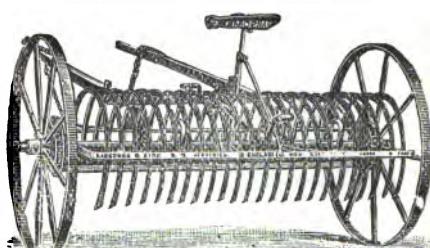
RANSOMES' UNDER-TYPE ENGINES.
High Pressure and Compound.



RANSOMES' SHORT STROKE ENGINES.
Few Parts, well suited for Export.



RANSOMES' CORN GRINDING MILLS.
Makers of the "Colonial" Roller Mill.



RANSOMES' HORSE RAKES AND HAYMAKERS.

ENGINES AND BOILERS OF ALL KINDS.

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"VITROS" ENAMEL MAKES OLD BATHS LIKE NEW.

PAINT YOUR BATHS WITH GRIFFITHS' "VITROS."

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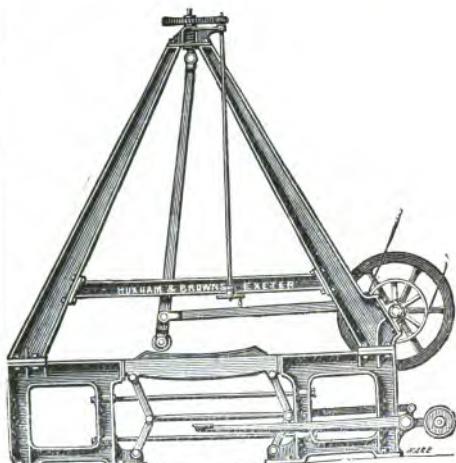
MELBOURNE CENTENNIAL INTERNATIONAL EXHIBITION.

Huxham & Browns, EXETER, Leather Trades' Engineers.

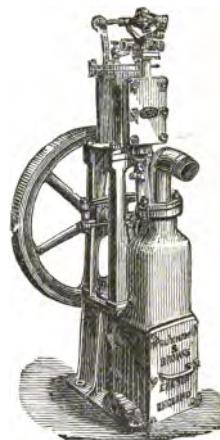
Established 1811.

Improved Pendulum Roller. Bark Disintegrator. Steam Pump. Bark Chopper. Improved.

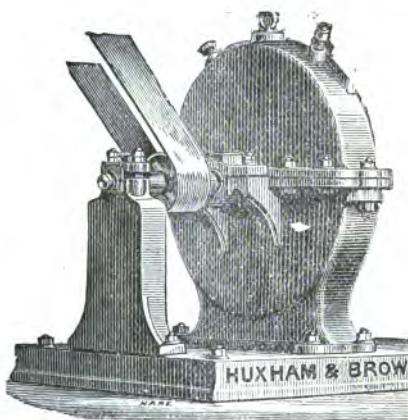
Machine for Setting, Rolling, Stoning, Glassing, Glazing, Striking, Printing, and Polishing Leather.



Improved Pendulum Roller, with Extra Pressure for Sides.



Tanner's Steam Pump, with Patent Valves to
pass Tan without Choking.



Improved Disintegrator for Mimosa and all kinds of Bark.



Bark Chopper.



Patent Self-contained Bark Mill & Cutters

New Edition of Catalogue free by post on application.

Griffiths Bros. & Co., Dashwood House, London, E.C.

GRIFFITHS' "GALVANITE" PAINT

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35

638 Owens, W. & T. C., 54 St. John's-st., London.—Meat-cutting machines, machines for filling skins with meat for sausages.

639 Roberts, H., and Co., Bancroft-road, London.—Casks, &c., for brewers; model of 40-hodds. brewery.

640 Robey & Co., Lincoln.—Roller flour mills.

641 Sadler & Co., Horselydown, London.—Butchers' meat-chopping machine and filling machines.

642 Siebe, Gorman & Co., 187 Westminster Bridge-road, London.—Ice-making machine and dry cold-air refrigerator.

643 Smith, A. & W., & Co., 57 Cook-st., Glasgow.—Evaporating apparatus and sugar-drying machines.

644 Turner, E. R. & F., Ipswich.—Grinding mill and corn crushers.

645 Tylor, J., & Sons, 2 Newgate-st., London.—Soda-water machines.

646 Tyler, Hayward, & Co., 84 and 85 White-cross-st., London.—Aerated water machinery. Agents: MacBrair, Osborn & Co., Collins-st. W., Melbourne; Sydney, Adelaide, and London.

647 Waggood, R., & Co., Falmouth-road, Great Dover-road, London.—Coffee-roasting machinery.

648 Watnesh, J. H., 288 and 289 Summer-lane, Birmingham.—Confectioner's steam bench for making boiled sugar goods, jujube machines, &c. Agents: Welch, Perrin & Co., Moray-st., S. Melb.

649 Williams, T., 14 West Smithfield, London.—Sausage-making machines.

Class 49.—Implements, Models, and Plans connected with Irrigation of Land.

650 Allen, W. H., & Co., York-street Works, Lambeth, London.—Centrifugal pumps, designed for irrigation works.

651 Evans, J., & Sons, Culwell Foundry, Wolverhampton.—Pumps for irrigation of land.

652 Herring & Son, Chertsey, Surrey, England.—Patent Horse Engine for Irrigation or Sewage purposes.



Agents: Harry Dix and Co., 65 William-st., Melb.

653 Hett, C. L., Aveholne Foundry, Brigg.—Centrifugal pump on wheels. Agents: Welch, Perrin & Co., Moray-st., South Melbourne.

654 Robey & Co., Lincoln.—Centrifugal pumps.

655 Ruston, Proctor & Co., Sheaf Iron Works, Sheffield.—Centrifugal pumps.

656 Sykes, H., 66 Bankside, Southwark, London.—Centrifugal pumping engine, for irrigating or draining purposes.

657 Taylor, J., & Sons, 2 Newgate-street, London.—Pumps.

658 Tyler, Hayward, & Co., 84 Whitecross-st., London, E.C., Engineers.

Hayward Tyler & Co.'s "Universal" Prize-medal Steam Pumps for general purposes. "Hot Water Pattern" Steam Pumps for Boiler Feeding. "American Plunger" Pattern for gritty water. "Long-stroke Niagara" Pattern for High Lifts.

Hayward Tyler & Co.'s "California" Pattern Hand Pumps. "Syphon" Pattern Windmill Pumps, and brass, barrel "Stock Pumps."

659 Westinghouse Brake Co. Ltd., King's Cross, London.—Westinghouse water-pump.

Class 50.—Apparatus used in Chemistry, Pharmacy, and Tanning.

660 Evans, J., & Sons, Culwell Foundry, Wolverhampton.—Pumps for gas and chemical works.

661 Farmer, Sir Jas., & Son, Salford, Manchester.—Model dryer and evaporating machine.

662 Huxham & Browns, Exeter.—Bark, grinding mills, bark-choppers, &c.

663 Trotter, Hains & Corbett, Stonebridge.—Fire-clay gas retorts.

Class 51.—Machines and Apparatus in general.

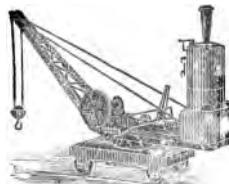
664 Abbot, John, & Co. Ltd., Park Works, Gateshead-on-Tyne, England.—Steam and Hydraulic Engineers, Pipe and Iron Founders, Bridge and Boiler Builders, Brass Finishers, Copper-smiths and Plumbers, Iron Manufacturers, Chain, Cable, and Anchor Manufacturers, &c., &c.

Established upwards of 100 years. Melbourne Agents: Messrs. Coates & Co., Planet-chambers, Collins-street East.

665 Andrew, J. H., & Co., Toledo Steel Works, Sheffield.—Silent gas engines, crucible cast steel, &c.

666 Anti-Lithon Composition Co. Ltd.—45 & 46 King-st., Bristol.—Liquid anti-lithon composition for prevention of corrosion, &c., in boilers

667 Appleby Brothers Ltd., 22 Walbrook, London Works, East Greenwich.



Self-propelling steam crane, and photographs of special machinery. Campbell, Guthridge & Co., sole agents, 13 William-st., Melbourne.

668 Avery, W. & T., Digbeth, Birmingham.—Weighing machines.

669 Babcock & Wilcox Co., The, New York and Glasgow, Patent Water-Tube Steam Boilers.

This Boiler represents a successful development of the Water Tube System upon rational and mechanical principles during twenty years' experience, the following important features being secured:—Perfect Circulation of the Water, ensuring an Equality of Temperature in all parts; ample Steam and Water capacity; Rapidity of Steaming and resistance to the heaviest firing; Economy in Fuel, in space occupied, and in up-keep; Safety, Durability, and Facility in Transportation; Accessibility to all its Surfaces for Cleaning; Simplicity and Thoroughness of Construction; facility in the replacing of any part; and the feature that any such renewal leaves the Boiler integrally as if new.

GRIFFITHS BROS. & CO., DASHWOOD HOUSE, LONDON, E.C.

VOL. II.

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672 Braddock, J. & J., Gas Engineers, GLOBE METER WORKS, OLDHAM.



Manufacturers of Dry and Wet Gas Meters of highest excellence. Station Meters of any magnitude. Braddock's Patent Compensating Gas-station Governors, District and Consumers' Governors. All kinds of Gas Pressure Gauges, Main Cocks, Street Lamps and Pillars, &c. Foreign Work a specialty. Melbourne : Messrs. James McEwan & Co. Ltd., Elizabeth-street.

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674 Broadbent, T., & Sons, Chapel Hill, Huddersfield.—Hydro-extractors.

675 Bullivant & Co., 72 Mark-lane, London.—Steam crane.

676 Burgon & Ball, Main Bridge, Sheffield.—Leather belting.

677 Capon, Heaton & Co., Lifford Mills, Birmingham. Mechanical indiarubber tubing valves, and other appliances, &c. Agents: Nason and Co., 263 George-st., Sydney.

678 Chatwin, Thomas, Great Tindal-st., Birmingham.

Stocks, Dies, and Traps for Engineering and Gas purposes. Screwing Machines, Twist Drills, Rimmers, Milling Cutters, Tube Cutters and Wrenches, Tube Vices, Spanners, Ratchet Braces, and general Tools.

679 Clark, Bunnett & Co., Rathbone-place, Oxford-st., London.—Steam engine and hydraulic crane. Agents: Welch, Perrin & Co., Moray-st., South Melbourne.

680 Colville, David, & Sons, Dalzell Steel and Iron Works, Motherwell, Scotland. Manufacturers of best mild Siemens' Steel Plates, Bars, Angles, etc.

STEEL BRANDS:—

Boiler Quality	Dalzell Steel.	Ship Quality	Dalzell Steel.

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681 Cowan, W. & B., London, Manchester, and Edinburgh.—Gas meters and gauges. Agents: Balfour, Elliott & Co. Limited, 5 Queen-st., Melb.

682 Clayton & Shuttleworth, Lincoln, England.

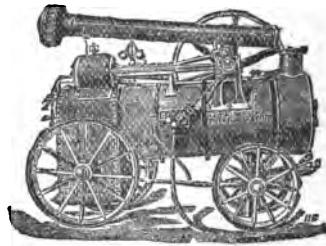
6-horse power Portable Steam Engine, with extra large firebox. Awarded First Prizes of the Royal Agricultural Society of England, and Gold Medals and Highest Awards at all the International Exhibitions, including that held in London in 1851.

8-horse power Portable Steam Engine, as above.

10-horse power Portable Steam Engine, as above.

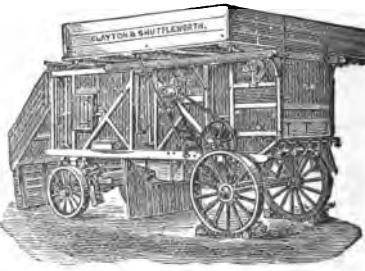
10-horse power Portable Double Cylinder Steam Engine, as above, with link-motion Reversing Gear.

12-horse power Portable Double-cylinder Steam Engine, as above, with link-motion Reversing Gear.

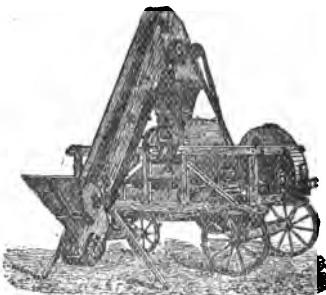


Threshing and Finishing Machine, with large riddling surface and all the latest improvements; Drum, 4 ft. 6 in. wide. Awarded First Prizes of the Royal Agricultural Society of England, and Gold Medal and the Highest Awards at all the great International Exhibitions.

Threshing and Finishing Machine; Drum, 5 ft. wide as above.



Portable Maize or Indian Corn Sheller, with Self-feeding Elevator and Dressing Apparatus.



ROCKE, TOMPSITT & CO., AGENTS, MELBOURNE.

PURE FLUID MAGNESIA.

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- 683 Danks, J., & Son, Wednesbury, Staffordshire.**—Steam valves, cocks, and whistles.
- 684 Davies & Clare, 51 South-road, Wandsworth, Birmingham.**—Disc engines, for water or steam.
- 685 Dawson, J., & Son, Lincoln.**—Tanned-leather machine belting.
- 685a Dawson, W., & Sons.**—Printers' engineers and machinists, iron and brass founders. Portable engines, printing machines; patent guillotine, diagonal and vertical; imperial and millboard cutting machine manufacturers, Ashfield Foundry, Otley, Yorkshire, England. Represented by William Detmold, 8 Flinders-lane East.
- 686 Denison, Samuel, & Son, Old Grammar School Foundry, Leeds, England.**—Denison's Patent Suspended Weighing Machines. The four exhibited are of 1, 3, 4, and 10 tons capacity, and show the different styles made. Total range of sizes, $\frac{1}{2}$ to 100 tons. Also makers of Weightbriges of all kinds. Established, 1820. Agents: H. P. Gregory and Co., Sydney and Melbourne.
- 687 Dewrance, J., & Co., 158 Great Dover-st., London.**—Hydraulic and water gauges.
- 688 Evans, Joseph, & Sons, Wolverhampton, and 52 Queen Victoria-street, London, E.C.**—Hydraulic Engines.
Evans' Patent "Cornish," "Reliable," "Ram," and Wall Donkey Steam Pumps.
Evans' Patent Duplex Steam Pumps.
Evans' Accumulator Steam Pump.
Centrifugal Pumps, Valves, Strainers, &c.
An extensive assortment, comprising about 200 different kinds of Evans's Patent Suction and Force Pumps for Hand, Horse, Wind, or other power.
- 689 Fielding & Platt, Atlas Iron Works, Gloucester.**—Horizontal and vertical duplex boiler feeding pumps.
- 690 Fleming, A. B., & Co. Ltd., Edinburgh.**—THE PATENT SOLIDIFIED OIL. The cheapest and best lubricant for ordinary Bearings and Steam-heated Journals, Fans, Cylinders, Valves, Engine and Steam Hammers, Slides, &c., and FOR USE WHEREVER TALLOW OR SUET IS APPLICABLE AS A LUBRICANT.
- Lardine, Lubricating, & Cylinder Oils.**
Sole Agents: CHARLES ATKINS & CO., 65 WILLIAM-ST., MELBOURNE.
- 691 Gandy Belt Manufacturing Co. Ltd., The, 130 Queen Victoria-street, London, E.C.** Works: 1, 3, and 5 Ansdell-street, Liverpool. This Exhibit consists of rolls of Gandy's Patent American Cotton Belting, from 2 in. to 12 in. wide. Also a Selection of Belt Fasteners.
Representatives: The Langlands Foundry Co.
- 692 Gardner, Anderson & Clarke, 134 Fenchurch-street, London.**—Cranes and lifts for hand or power.
- 693 Garrett, R., & Sons, Leiston, Suffolk.**—Portable high-pressure non-condensing steam-engines.
- 694 Greenwood & Batley, Albion Works, Leeds.**—Armington-Sims patent steam engine (*see page 39*).
- 695 Hardy Patent Pick Co. Limited, Sheffield.**—Makers of Picks, Shovels, Forks, Hammers, Wedges, Hand-boring Machines for Rock and Coal, and all Miners' and Contractors' Tools. The "Devil" Disintegrator for Grinding, Granulating, and Shredding any material—animal, vegetable, and mineral.
- 696 Harvey & Co. Ltd., Hayle, Cornwall.**—Condensing horizontal engine and working model of Cornish engine, as used for water-works, &c.
- 697 Henderson, H., & Sons, Ladybank Leather Works, Dundee.**—Leather hose-piping, belting, pump leather, &c.
- 698 Hepburn & Gale Limited, 239 Long-lane, Southwark, London.**—Leather belting.
- 699 Hindley, E. S., London and Burton.**—Two and four horse power vertical engines and boilers.
- 700 Hunt & Mitton, Oozell-st., Birmingham.**—Engine and boiler fittings.
- 701 Hornsby, R., & Sons Ltd., Grantham, England.**



Underneath Type Compound Engine; Underneath Type High-pressure Engine; Compound coupled Horizontal Engine, with grooved flywheel for rope-driving; Portable Engines (Compound and High Pressure); Colonial Type Engines; Combined Vertical Engine and Boiler; High-speed Vertical Engine; Gas Engine.

702 Jeffery & Blackstone, Rutland Iron Works, Stamford, Lincolnshire.

Improved vertical Steam Engines, Patent Corn-grinding Mills, Horse Rakes, and Chaff-cutters.

703 Kent, G., High Holborn, London.—Knife-cleaning machines.

704 Kirkstall Forge Co., Leeds.—Patent rolled shafting.

705 Lancashire Patent Belting Co., Manchester.—Beltings, &c. The Original Patent Hair Belting for all Classes of Driving. Highest Australasian Awards: Adelaide, 1887; Sydney, 1880; Melbourne, 1880-81, &c. Campbell, Guthridge & Co., sole Australasian representatives, 13 William-st., Melbourne.

TRADE { "LANCASHIRE" } REGIS.
MARK { TERED. }

706 MacMahon, Sir C., 21 Leeson Park, Dublin.—Tubular fire escapes, fixed and portable.

707 Marshall, Sons & Co. Ltd., Gainsborough.—Portable steam engines (*see page 40*).

708 Martineau & Smith, Holloway Head, Birmingham.—Steam cocks and valves, and pressure and water gauges.

709 Mason, D., & Sons, Bath Row, Birmingham.—Machine belting.

ROCKE, TOMPSITT & CO., AGENTS, MELBOURNE.

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SIR JAMES MURRAY'S PURE FLUID MAGNESIA.

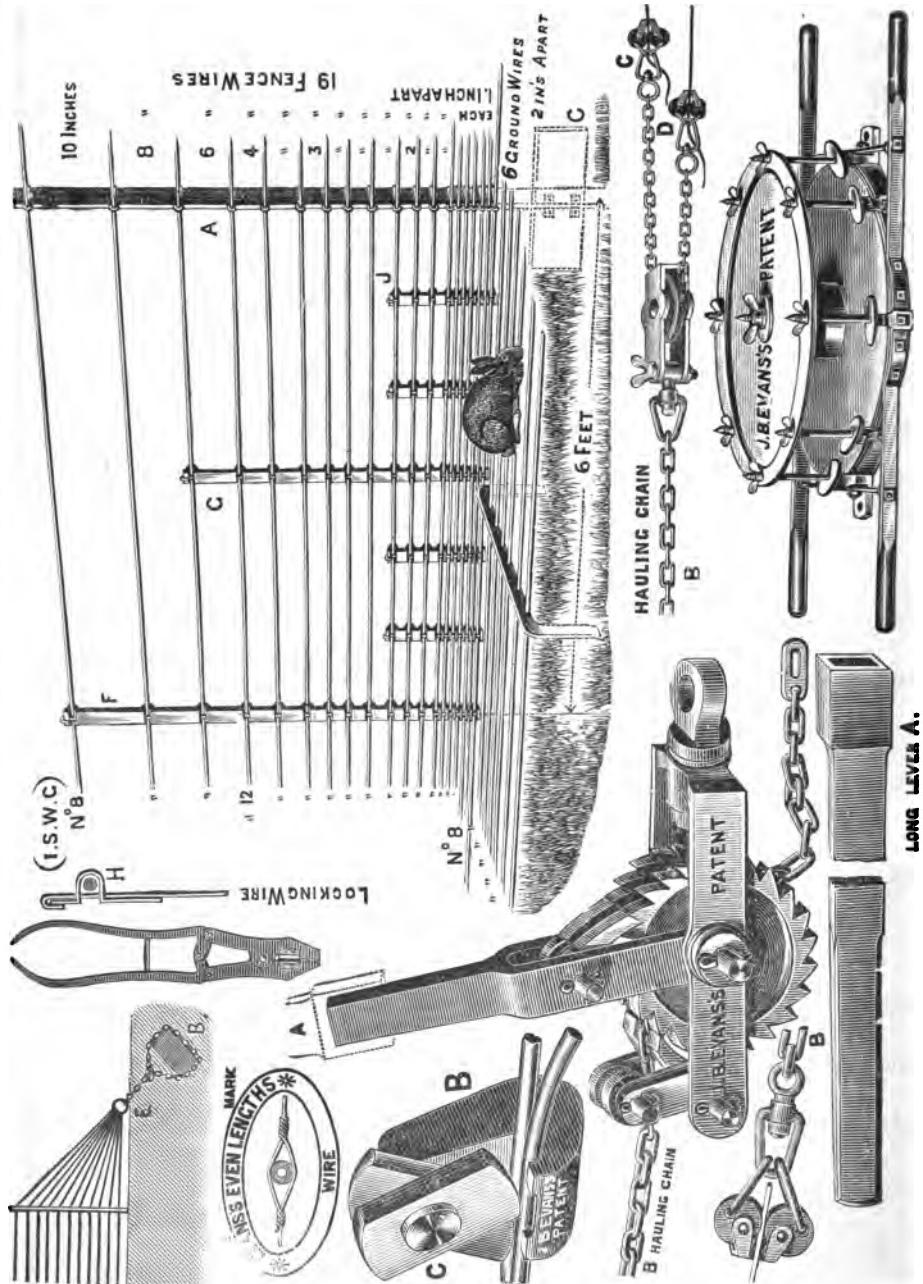
38

MELBOURNE CENTENNIAL INTERNATIONAL EXHIBITION.

710 Evans, J. B., Patentee, Cape Stock Farming Company Ltd.,

2 Suffolk-lane, Cannon-street, London.

Fence, Terminal, Clip, Straining Machine, Compensating Pulley, Coil Drum, Cutting Pliers



ROCKE, TOMPSITT & CO., AGENTS, MELBOURNE

GREENWOOD & BATLEY.

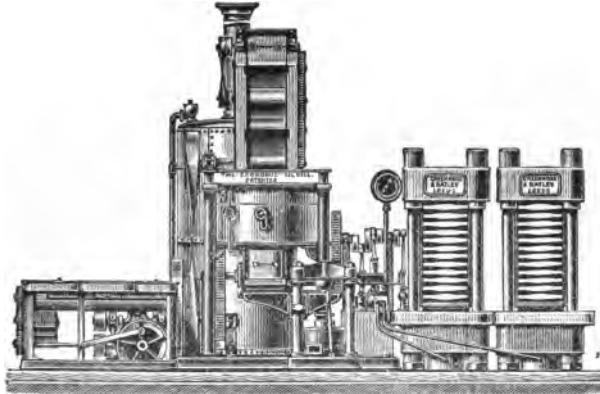
BRITISH EXHIBITS.

39

STEAM ENGINES, ELECTRICAL MACHINERY, OIL AND FLOUR MILLS.

Greenwood & Batley, Albion Works, Leeds, England,
ENGINEERS, GENERAL & SPECIAL TOOLS, MACHINERY FOR OIL & FLOUR MILLING, &c.

MANUFACTURE AND EXHIBIT:—



ECONOMIC OIL MILL, LAMBERT & GREENWOOD'S PATENT, will Crush 3 to 4 Tons of Seed per 11 hours.
ARMINGTON-SIMS PATENT STEAM ENGINE, Driving the Whole of the Exhibit.

The "LEEDS" PATENT DYNAMO, with Lamps for Lighting Exhibit.

A Plant of Machinery for making METALLIC CARTRIDGES,

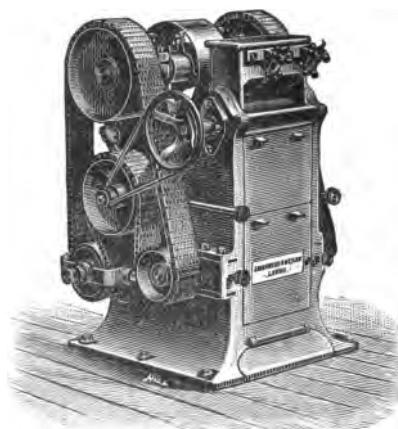
Made Specially for the Colonial Ammunition Co. Limited, of Auckland, N.Z.,
and Worked by them. Also Samples of Cartridges, Shells, Fuze, &c.

"WHITEHEAD" FISH TORPEDO. COPY TURNING LATHE FOR WOOD.

ENDLESS BAND SAW for Cutting Wood, and KNIFE for Cutting Clothing.

MACHINE FOR SHARPENING MILLING CUTTERS. SHAPING MACHINE. IMPROVED SLIDE & SCREW CUTTING LATHE.
THE "SUN" PATENT PLATEN PRINTING PRESS. PENTAGRAPH MILLING CUTTER MAKING MACHINE.

RADIAL DRILLING MACHINE. UNIVERSAL MILLING MACHINE.



BUCHHOLZ'S PATENT BELT ROLLER FLOUR MILL.

Photographs of Machinery and various Samples to illustrate their productions, viz.:—
MACHINES FOR THE MANUFACTURE OF EVERY VARIETY OF "MUNITIONS OF WAR,"
ENGINEERS', GENERAL, AND SPECIAL FORGING PLANT.

BOLT AND NUT MAKING MACHINERY. SPECIAL TOOLS, WOOD WORKING AND TESTING MACHINES.
SEED CRUSHING, OIL MILL, AND FLOUR MILLING MACHINERY OF EVERY DESCRIPTION.

MACHINERY FOR TREATING SILK WASTE, CHINA GRASS, AND OTHER FIBRES.

ALL KINDS OF SPECIAL MACHINERY.

STEAM ENGINES.

CORN-GRINDING MACHINERY.

SAWING MACHINERY.

40

MELBOURNE CENTENNIAL INTERNATIONAL EXHIBITION.

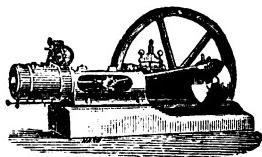
Marshall, Sons & Co. Ltd., Britannia Ironworks, Gainsborough, and 79 Farringdon-road, London. Engines for Industrial and Agricultural Purposes, Steam Thrashing Machinery, &c.

PORTABLE STEAM ENGINES.



Specially adapted for Colonial use and for burning all kinds of fuel. 2 to 40 H.P.

SAWING MACHINERY. HORIZONTAL FIXED STEAM ENGINES.



Self-contained, 4 to 12 H.P. Long-stroke type, 12 to 80 H.P.

PUMPING ENGINES. TRACTION ENGINES.



Engines specially equipped for driving Electric-light Machinery.

Over 1600 Engines made and supplied.

Upwards of 250 Gold and Silver Medals awarded.

Represented by M'Lean Bros. and Rigg Ltd., Melbourne, from whom prices and full particulars may be obtained.

ENGINES FOR ELECTRIC-LIGHT MACHINERY.

PURE FLUID MAGNESIA.

BRITISH EXHIBITS.

41

711 Merryweather & Sons, Greenwich-road, Leeds.—Steam fire-engine and fire-extinguishing apparatus.

712 Moore, Munton & Varley, Keighley, Yorkshire.—Washing, wringing, and mangleing machines.

713 Murdoch, J. G., & Co. Ltd., 91 and 9 Farringdon-road, London.—Wringing machines.

714 Napier Bros., 100 Hyde Park-st., Glasgow.—Patent “Cat” governor; model.

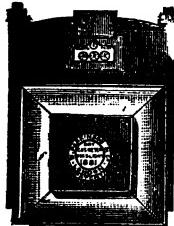
715 Nicoll, G. H., & Co., 18 and 20 Bank-st., Dundee.—Mangles.

716 Norris, S. E., & Co., Shadwell, London.—Leather belting.—Agents: Welch, Perrin and Co., Moray-st., South Melbourne.

717 Oxley, J., 29 Harbour-st., Sunderland.—Combined rolling-mills.

718 Palmer's Shipbuilding & Iron Co. Ltd., Jarrow-on-Tyne.—Model of steam engine.

719 Parkinson, W., & Co., Gas Engineers, Cottage Lane Works, City-road, London.



Manufacturers of Gas Meters and apparatus of every description. Melbourne—Wm. Swinburne, 8 Collins-street East.

720 Parkinson & Barrett, The Forge, Bradford.—Wrought-iron pulleys, bright turned shafting, couplings, and bearings.

721 Payne, W. J., and Co., 2 Harmer's-hill, Islington.—Patent motor engine.

722 Pooley, H., & Son, Albion Foundry, Liverpool.—Weighing machines, weighbridges, and grain-weighing apparatus.

Agents: MacBrair, Osborn & Co., Collins-st. W., Melbourne; Sydney, Adelaide, and London.

723 Ruston, Proctor & Co., Sheaf Ironworks Sheffield.—Steam engines.

724 Shand, Mason & Co., 75 Upper Ground-st., London, S.E.—Steam and manual fire engines, fire escapes, helmets, hose, electric lamp. Campbell, Guthridge & Co., Australian agents, 13 William-st., Melbourne.



725 Simmons & Tullidge, Pleasant-grove, King's Cross, London.—Patent carpet-beating machine.

726 Spencer, W. H., & Co., Hitchin, Hertfordshire.—Steam engine.

727 Summerscales, W., & Sons, Coney-lane Works and Phoenix Foundry, Keighley, Domestic Laundry and General Engineers (Telegraphic Address: “Phoenix,” Keighley).

Who are the largest Makers in the World of Washing Machines, Mangles, Wringing Machines; also Indiarubber Roller Wringers;

Chaff Cutters, Roof Pulpers, Slicers, and Fingerers;

Garden Rollers, Garden Seats; Sack Trucks; Patent Safety Step Ladders, Patent Knife Cleaners, Engineers' and Joiners' Vices.

Sundale Copying Press, Sewing Machines.

Complete Plans and Specifications for large and small Laundries for Hand or Steam power.

Iron and Brass Founders, Heating, Cooking, &c., for Public Institutions, Hotels, Mansions, &c., have a large and varied display of their various machines, &c., the whole of which are very well made and got up.

728 Sykes, Henry, 66 Bankside, London, S.E., Hydraulic and General Engineer.

“Vulcan” Windmills. Pumps, Irrigating Outfits, Well-boring Tackle, Heavy Pumping Machinery, and Well-sinkers' Tools. Portable and other Engines, Centrifugal Pumps, Hoists, Crabs, Cranes, and Builders' and Contractors' Plant of all descriptions.

Estimates given for special Machinery.

729 Tangyes Ltd., Cornwall Works, Birmingham.—Steam engines and pumps gas engine and hammer (*see page 42*).

730 Thomson, W., 57 Smith-st., Glasgow.—Pulley-blocks, boiler-tube expanders, weighing-machines, &c.

731 Thwaites Brothers Ltd., Vulcan Iron Works, Bradford, Yorkshire, England.

DESCRIPTION OF EXHIBITS.

Class 51.—One $\frac{1}{2}$ -cwt. Thwaites' Patent Steam Hammer (New Design) with Double Standards and Self-Acting Valve Motion for quick Blows. Nos. 1, 2, 3, 4, and 5 size, Root's Patent Small Blowers. One No. 2 Small Blower, with Belt Gear, to be worked by Hand Power. One No. 1 Small “Vulcan” Patent Portable Forge with Hood, and fitted with Root's Patent Blowers.

Classes 51 and 82.—One $\frac{1}{2}$ -cwt. Thwaites' Patent Steam Hammer (New Design) with Double Frames and Guides. Self-Acting Valve Motion Worked with Foot Treadle. One Model of Stewart's Patent “Rapid” Cupola for Melting Pig Iron and for Smelting Copper and Silver Lead Ores. One No. 5 Root's Patent Small Blower or Gas Exhauster with Engine.

The above are all Manufactured by Thwaites Brothers Ltd.

Agents: Burstall & Co., 14 Queen-st., Melbourne.

732 Turnball, A., & Co., Glasgow.—Safety-valves.

733 Turner, E. K. & F.—Steam-engines.

734 Tyler, Hayward, & Co., 84 and 85 White-cross-street, London.—Steam engines.

735 Tylor, J., & Sons. — Brass and gun-metal valves, taps, &c.

SIR JAMES MURRAY'S PURE FLUID MAGNESIA.

ROCKE, TOMPSITT & CO., AGENTS, MELBOURNE.

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TANGYES LIMITED.

Makers of all Kinds

of

PUMPING PLANT

Of the very best description,

LARGE OR SMALL,

And for

HIGH OR LOW LIFTS,

With or Without

ENGINES

Makers of all Kinds

of

STEAM ENGINES

And

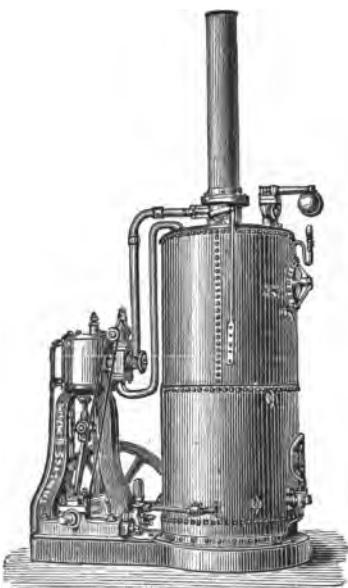
BOILERS

FOR EVERY PURPOSE,

And

On the most approved

DESIGNS.



CONTRACTORS FOR PUMPING ENGINES TO

MESSRS. CHAFFEY BROS.,

For Mildura and Renmark.

SYDNEY: HAY STREET, DARLING HARBOUR.

MELBOURNE: COLLINS STREET WEST.

736 Walker, T. W. & J., Temple-st., Wolverhampton.—Spiel's patent petroleum-engine. Agents: Burstable & Co., 14 Queen-st., Melb.

737 Waygood, R., & Co., Falmouth-road, London.—Lifts, hydraulic passenger-lifts.

738 Weston, P. A., Coalbrookdale, Staffordshire.—One ½-ton hand-derrick crane.

739 Wormald & Co., Govan, Glasgow; also Gateshead-on-Tyne, Belfast, and Cardiff.—Improved Fibrous Non-conducting Composition, for Covering Boilers, Steam Pipes, &c. Used by Government, leading Engineers, and Manufacturers. Diploma of Merit, Adelaide.

Class 52.—Machine Tools.

740 Britannia Co., Colchester.—Makers of Engineers' Tools to the British Government.

741 Blaiberg & Marson, Bute Works, Birmingham.—Screwing machines, stocks, dies, &c.

742 Butterfield, F. & J., & Co., Keighley, Yorkshire.—Lathes, &c.

Agents: MacBrair, Osborn & Co., Collins-st. W., Melbourne; Sydney, Adelaide, and London.

743 Daniell, S. A., Lion Works, Edward-st., Birmingham.—Screwing machines, tube vices, cutters, &c.

744 Gibbons, H., Kennet Works, Hungerford.—Moulding machines for foundry work.

745 Glover, M., & Co., Leeds.—Saw-sharpening machine.

746 Greenwood & Batley, Leeds.—Copy turning lathe for wood.

747 Hazeon, T., & Co., 10 Bishopsgate-avenue, London.—Oilstones, emery wheels, and grinders. Agents: Harry Dix and Co., 65 William-st., Melb.

748 Hindley, E. S., 11 Queen Victoria-st., London.—Circular saw bench, with adjustable fence.

ROCKE, TOMPSITT & CO., AGENTS, MELBOURNE.

PURE FLUID MAGNESIA.

BRITISH EXHIBITS.

43

749 Smith, Thos. & Wm., St. Lawrence Ropery, Newcastle-on-Tyne, England,

And 37 Queen-street, Melbourne.

Manufacturers of all descriptions of

Round and Flat Steel and Iron Wire Ropes.

Winding and Hauling Ropes of all kinds.

"Special Flexible" Winding Ropes for Small Pulleys.

Cable Tramway Ropes, of any length, without Splice.

Flat Winding Ropes, with improved Single Stitching.

Patent Galvanised-steel Wire Hawser.

Galvanised-wire Rigging and Running Gear.

Crane Ropes for smallest Drums and heaviest Loads.

SOLE LICENSEES AND MANUFACTURERS OF

Johnson's Patent Ensilage Stack Press,

For Making Sweet Ensilage in Stacks.



AWARDS.

First Order of Merit, Adelaide, 1887.

Royal Agricultural Society of England—Silver Medal, 1886.

" " " " £25 Prize, 1886.

" " " " of Germany—Silver Medal, 1887.

ENSILAGE SOCIETY—Four First Prizes, Champion Cup, Special Prize, £25.

AND

Johnson's Patent Baling Press,

For Baling Wool, Hay, Straw, Rags, &c.

ROCKE, TOMPSITT & CO., AGENTS, MELBOURNE.

- 750 Howarth, J., & Sons**, Broom Spring Works, Sheffield.—Machine knives and tools.
- 751 Kell, Richard, & Co.**, 7 Sandhill, Newcastle-on-Tyne, England. Grindstone Manufacturers. Coarse, Sharp, Grit Grindstones for Engineers, Blacksmiths, and File Grinders. Fine Grit Grindstones for Edge Tools. All from their Windy Nook Battery, Eighton Banks, and Springwell Quarries. Established 1874.
- 752 London & Birmingham Hardware Co. Ltd.**, London and Birmingham.—Machinery tools and appliances.
- 753 Luke and Spencer Ltd.**, Ardwick, Manchester.—Tool grinders and saw-sharpening machines. Agents: MacBrair, Osborn & Co., Collins-st. W., Melbourne; Sydney, Adelaide, and London.
- 754 MacMahon, Sir C.**, 21 Leeson-st., Dublin.—Cask-making machine.
- 755 Marshall, Sons & Co. Ltd.**, Gainsborough.—Saw benches.
- 756 Martin, R.**, Old Charlton, London.—Milling cutters, boring bits, and other tools used by engineers.
- 757 Mathieson, A., & Son**, Saracen Tool Works, Glasgow.—Screw stocks, dies, and taps.
- 758 Morris Bros.**, Doncaster.—Quartz mill and amalgamator, combined.
- 759 Newbould, S., & Co. Ltd.**, Sheffield.—Circular, pit, and cross-cut saws.
- 760 Ransome, A., & Co.**, Stanley Works, Chelsea, London.—Improved saw-sharpening machine.
- 761 Robey and Co.**, Globe Works, Lincoln.—Steam Engines. Compound "Robey" Engines. Vertical Automatic Engines. Combined Fixed Engine and Vertical Boilers. Portable Engines. Combined Vertical Engines and Boilers. Saw Benches. Centrifugal Pumps. Thrashing Machines. Mining Engine, with Patent Wrought-iron Tank Foundations. Roller Flour Mills. Horizontal Fixed Engines. Robey & Co's Improved Hoisting Engines.
- 762 Robson, J.**, Sheffield.—Screwing machines, stocks, taps, dies, &c.
- 763 Sagar, J., & Co.**, Stone Dam Works, Halifax, Yorkshire.—Band saw machine. Sole Agents, Australia and New Zealand : H. F. Gregory & Co., 104 Bourke-st. West, Melbourne ; and 17 Pitt-st., Sydney.
- 764 Selig, Sonnenthal & Co.**, 85 Queen Victoria-st., London.—Automatic bandsaw, filing, and setting machines. Agents: Welch, Perrin and Co., Moray-st., South Melbourne.
- 765 Tyzack, Sons & Turner**, Little London Works, Sheffield.—Saws, circular and other kinds, to be used with power.
- 766 Weston, P. A.**, Coalbrookdale.—Grindstones and frame complete, circular saws, &c.
- 767 Wheatman & Smith Limited**, Sheffield.—Saws, files, and edge tools.

Class 53.—Apparatus and Processes used in Spinning and Rope Making.

- 768 Crawshall, J., & Sons**, St. Ann's Rope Works, Newcastle-on-Tyne.—Samples of steel ropes.
- 769 Joel, H. F., & Co.**, 31 Wilson-st., Finsbury, London.—Specimens of cables and wires.

770 Scott, Frederick W., Reddish, Stockport, England. Wire Drawer and Galvaniser.



Manufacturer of Patent and Plough Steel and Iron; Flat and Round Wire; Ropes for Mines, Inclines, Aerial Tramways, Suspension Bridges; and every description of Wire Rope for mechanical purposes. Steel Hawser for Ship's Towing, Mooring Ropes, Twisted Conductors or Guide Rods.

- 771 Shaw, J.**, Soho-st., Sheffield.—Round and flat steel and iron wire ropes for mining, hauling, shipping, &c.

ROCKE, TOMPSITT & CO., AGENTS, MELBOURNE.

PURE FLUID MAGNESIA.

Class 54.—Apparatus and Processes used in Weaving.

772 Berridge & Co., 8 Gallowtree-gate, Leicester, England.



Sole Manufacturers of the "Griswold" Patented improved Knitting Machines for the production of Hosiery, Ribbed or Plain. Largely used by Hosiery Manufacturers. Price lists and full particulars free on application.

773 Gibson, W., & Co., 108 Irongate, Glasgow. —A sample collection of weavers' shuttles, bobbins, &c.

774 Platt Bros. & Co. Ltd., Hartford Works, Oldham, England. Samples showing the processes of Preparing and Spinning Australian Wools, both on the French and Yorkshire systems. Manufacturers of machinery for Preparing, Spinning, and Weaving Cotton, Wool, Worsted, Silk, &c., also Brick-making Machinery.

Class 55.—Apparatus and Processes for Sewing and for making up Clothing.

775 Ab-Intra Bootmaking Process Co. Ltd., 50 Whitecross-st., London.—Bootmaking machinery.

776 Creese, H. J., & Co., 50 Chester-st., Leicester.—Samples of iron lasts and solid steel knives used in the manufacture of boots and shoes.

777 Douglas Bros., Kingswood Hill, Bristol.—Bootmaking machinery.

778 Foster, James, 41 Friargate, Preston, England, Patentee and Inventor of Improved Knitting Machines; Victoria, Concordia, Lancashire, and Union Construction for the Manufacture of all descriptions of Hosiery. Manufactured in widths from $3\frac{1}{4}$ inches to 33 inches, and Needle Gauges from 3 to 15 needles per inch. Special Knitting Machines to work by hand or power.

779 Gimson & Co., Engine Works, Leicester, England. Makers of latest Improved Machinery for Manufacture of Boots and Shoes.

780 Harrison Patent Knitting Machine Co., 133 Portland-st., Manchester.—Clothing and stocking-knitting machines.

781 Lilley, Skinner & Colebrook, Harrow-road, London.—Machinery for fastening buttons on boots, and grindery.

782 Milward, H., & Sons, Washford Mills, Redditch.—Sewing-machine needles.

783 Patents Manufacturing Co., London and Northampton.—Dorman lock-stitch sewing machine.

784 Pearson & Bennion, London and Leicester. —Cutting press for boots and other bootmaking machinery.

785 Read, Miss Nina, 7 Coleherne-road, London. —Machines for artistically embroidering names and designs.

Class 56.—Apparatus and Processes used in the Manufacture of Furniture and Objects for Dwellings.

786 Bradley & Craven, Wakefield, Yorkshire. —Brick moulding and pressing machines.

787 Fawcett, T. C., Whitehouse Engineering Works, Leeds. —Brick making and pressing machines.

788 Johnston, W., Castleton Foundry, Leeds. —Brick making and pressing machines.

789 Mathieson, A., & Son, Saracen Tool Works, Glasgow.—Morticing, boring, and other wood-working machinery.

790 Ransome, A. & Co., King's-road, Chelsea, London. —Planing, mortising, and mitreing machines.

791 Sagar, J., & Co., Halifax, Yorkshire.—Planing, chamfering, tenoning, sawing, and moulding machines. Sole Agents Australia and New Zealand: H. P. Gregory & Co., 104 Bourke-st. West, Melbourne; and 17 Pitt-st., Sydney.

792 Verity Bros., Call-lane, Leeds, Brassfounders. Builders' Brass Foundry.—Mortising Machines. Builders' Malleable Iron Workers. Builders' Engineers and Machine Makers.

All articles we exhibit are exact samples of goods we manufacture and supply, and are not got up specially for exhibition.

In all our exhibits will be found improvements suggested by leading architects, the trade, and our own experience of a quarter of a century.

793 Weston, P. A., Coalbrookdale.—Circular saw frame and saws, &c.

Class 57.—Apparatus and Processes used in Papermaking, Dyeing, and Printing.

794 Caslon, H. W., & Co., 22 and 23 Chiswell-road, London.—Type.

795 Cropper, H. S., & Co., patentees and manufacturers of the Minerva printing machine, Minerva Works, Great Alfred-st., Nottingham, England. Represented by William Detmold, 8 Flinders-lane East.

796 Cundall, R., & Sons, Shipley, Yorkshire.—Patent Victoria book-folding machine.

797 Dawson, Wm., & Sons, Inventors and Original Manufacturers of the Wharfedale Printing Machine; Printers' Engineers, Ashfield Foundry, Otley, England. Established 1825. Makers of the Improved Wharfedale, suitable for any kind of work; Web Rotary Printing and Folding Machines for Newspapers; Perfecting Machines for Book Work; The Mitre Platen for Bank Notes and other high-class Printing; Self-clamp Guillotine Cutting Machines, &c. Represented by Wm. Detmold, 8 Flinders-lane East Melbourne.

SIR JAMES MURRAY'S PURE FLUID MAGNESIA.

ROCKE, TOMPSITT & CO., AGENTS, MELBOURNE.

- 798 Durable Printers' Roller Co. Ltd.**, 57 Shoe-lane, London.—The "Durable" printers' roller composition.
- 799 Greenwood & Batley.**—Job printing press.
- 800 Greig, J., & Sons.**—Engineers, millwrights, and ironfounders, and manufacturers of printing, bookbinding, lithographic, tobacco, and other machinery, Fountain House Works, Fountainbridge, Edinburgh. Represented by William Detmold, 8 Flinders-lane East.
- 801 Hooker, P.**, Farringdon-road, London.—Printing presses.
- 802 Illustrated London News**, 198 Strand, London (Wm. Ingram).—Printing machines for producing the "Illustrated London News."
- 803 Model Printing Press Co.**, 3 Ludgate circus Buildings, London.—"Model" self-inking printing presses.
- 804 Morritt, A.**, Hockley Mill, Nottingham.—The "Empress" treadle or steam printing machines.
- 805 O'Neill, T. H.**, 18 Belgrave-road, Newcastle-on-Tyne.—Printing presses.
- 806 Powell, J. M., & Son**, 33A Ludgate-circus, London.—Printing machines.
- 807 Seggie, A., & Son**, Broughton-market Works, Edinburgh.—Lithographic and letterpress printing machines.
- 808 Smith, Anderson, & Co.**, Fettyhil, Leslie, Scotland.—Patent jug-making and printing machine combined.
- 809 Wade, J.**, Halifax, Yorkshire.—Printing machines.
- 810 Zuccato & Wolff**, 15 Charterhouse-street, London.—Tryograph, for printing fac-simile of writing in permanent black ink.

Class 58.—Machines, Instruments, and Processes used in various Works.

- 811 Accordion Pleating Manufacturing Co.**, 228 Euston-road, London.—Accordion-pleating machine.
- 812 Barnett & Foster**, Eagle Wharf-road, London.—Bottling and corking machine.
- 813 Glover, W., & Co.**, Potterdale Works, Leeds.—Firewood, splitting, and bundling machine.
- 814 London & Birmingham Hardware Co. Ltd.**, London and Birmingham.—Set of machinery for penmaking.
- 815 Mills, R. B.**, Upper Field-st., Kettering.—Machinery for splitting and cutting leather.
- 816 Tyler, Hayward, & Co.**, 84 Whitecross-st., London, E.C., Engineers.
Hayward Tyler & Co.'s "8-GOLD MEDAL" Aerated Water Machinery in various sizes, with improved Saturator and Supersaturator, and every other recent improvement. Automatic Steam Bottling Machinery for Corks and Patent Stoppers. All recent improvements in hand bottling. Howard's Patent Wiring Machine, &c. Syrup-making Machinery. Siphons and other Bottles, and every other requisite for the aerated-water trade.

Class 59.—Carriages and Wheelwrights' Work.

- 817 Andrew, J. H., & Co.**, Toledo Steel Works, Sheffield.—Coach and cart springs.
- 818 Brookes, J. & H.**, Birmingham.—Cycles. Agent: H. Todd, 1 Flinders-lane West, Melbourne.
- 819 Capon, Heaton & Co.**, Lifford Mills, Birmingham.—India-rubber springs, tiers, &c., for carriages.
- 820 Cocker Bros. Ltd.**, Nursery-st., Sheffield-road.—Van and carriage springs and scrolls.
- 821 Dunkley, W. H.**, 41 Jamaica Row, Birmingham.—Perambulators, bath chairs, &c. (*see pages 47 and 48*).
- 822 Gilpin, W. sen., & Co. Ltd.**, Carnock, Staffordshire.—Carriage, buggy, cart, and dray axles.
- 823 Henderson, J., & Co.**, 60, 62, and 64 North-st., Glasgow.—Landau.
- 824 Hills, E., & Sons**, Dover and Folkestone.—Landaus, broughams, phætons, buggies, and char à bancs.
- 825 Hitching & Wynn**, 23 Ludgate-hill, London.—Baby chairs and appliances. Agents: Harry Dix and Co., 65 William-st., Melbourne.
- 826 Humber & Co. Ltd.**, 32 Holborn-viaduct, London. Works: Beeston, Nottingham.—Tri-cycles and bicycles. Victorian Representatives: Melbourne Sports Depot, 62 and 64 Elizabeth-st., Melb. N.S.W.: Jas. Martin & Co., 101 York-st., Sydney.
- 827 Kirkstall Forge Co.**, Leeds.—Axles for carriages, carts, and waggons.
- 828 Linley & Biggs**, "Whippet" Non-vibrating Cycle Manufacturers and Patentees, 29 Clerkenwell-road, London, England.



The "Whippet" is FAR in advance of all other Cycles, and is the Only Machine Perfectly Free from vibration, and is acknowledged by all who have ridden it, to be the Machine of the Future. Price Lists, with full particulars, can be obtained at our stand in the Exhibition.

- 829 Lloyd, J.**, 70 Lower Hurst-st., Birmingham.—Perambulators and baby carriages.
- 830 Lones, Vernon & Holden**, Sandwell Iron and Axle Works, Smethwick, England.—Carriage, cart, and dray axles.

Dunkley, W. H., 76 Houndsditch, London. Works—Jamaica Row, Birmingham. Patentee and Manufacturer of every conceivable description of Perambulators, Bassinettes, Rocking Horses, Tricycles, Tricycle Horses, Perambulator Wheels, Iron Work, Springs, Joints, Handles, Invalid Chair Furniture, Model Horses for Coach Builders, Steam Roundabouts, and Switchback Railways. The Largest Maker on Earth. Terms on application.

Representative : J. P. Nason, 263 George-street, Sydney ; and at Melbourne Exhibition.

Stand, No. 741, Melbourne Exhibition.



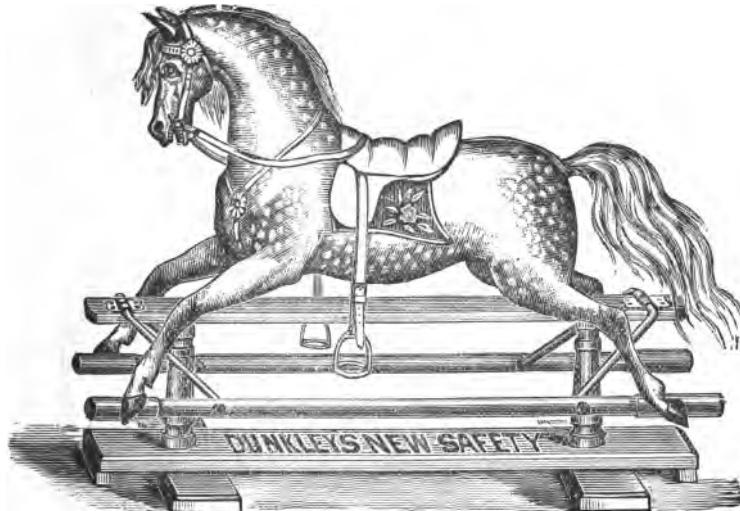
21/-



21/-

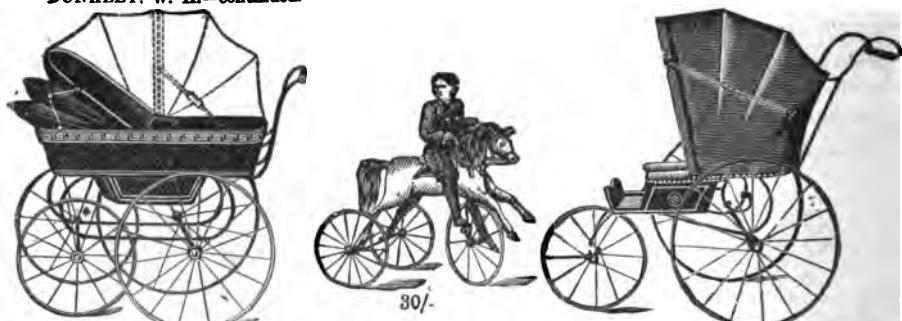


Dunkley's Patent Safety Tricycle Horse, 42/-



21/-

DUNKLEY, W. H.—continued.



Dunkley's Patent Double Compactum, 63s.

Dunkley's Patent Single Compactum, 28s.



Dunkley's Eclipse: Papier Maché Body, Hand-painted, with fixed Handle, 105s. to 200s.

CAMPBELL, GUTHRIDGE & CO.,

BRITISH EXHIBITS.

49

481 MacMahon, Sir C., 21 Leeson-st., Dublin.—Road-car omnibus.

482 Murdoch John G., & Co. Limited, 23 Lonsdale-st. East, Melbourne, Merchants and Fancy Goods Importers.—Perambulators.

SPENCER, JOHN, & Co. Ltd., London. Celebrated for the quality, strength, and finish of their Pianos. Sole Agents: John G. Murdoch & Co. Limited, Melbourne.

CARPENTER, E. P., & Co., Brattleboro', U.S.A. Unrivalled for American Organs. Sole Agents: John G. Murdoch & Co. Limited, Melbourne.

STAR PERAMBULATOR COMPANY, London. The leading Children's Carriage Makers in Great Britain. Sole Agents: John G. Murdoch & Co. Limited, Melbourne.

483 Mulliner, H. H., Birmingham.

Carriages, including Landau, Brougham, Victoria Phaeton, Mail Phaeton, Tandem, and Cob Carts, &c. Also,

Harness for pair horse, tandem, and for single, both full size and cob size.

Sole agents for Victoria: Hesselmann and Schürmann, 62 Flinders-lane W.

484 M'Naught & Co., Worcester, and 10 Park-lane, Piccadilly, London, Carriage Builders and Harness Makers.

Two Carriages: "Landau" and "Sociable."

485 Offord & Sons, London.—Carriages. Mel bourne Agents: Messrs. Smart, Fehon & Co. Angular Landau, with Open Boot and Patent Hood.

Canoe Landau, with Offord's Patent Hood. Canoe Landau, suspended on Semi-Cee Springs. London Park Victoria.

Brougham, with Lever Brake and Patent Skids.

486 Patent Nut & Bolt Co. Ltd., London Works, Birmingham.—Coach bolts and screws.

487 Quadrant Tricycle Co., 1 Sheepcote-st., Birmingham.—Quadrant tricycle and bicycle. Sole Agents for Victoria: Sam'l. Buckley and Co., Clarke Buildings, Bourke-st. West, Melbourne.

488 Rigby, J., & Sons, London and Wednesbury.—Axles and springs, bolts and nuts, and carriage lamps.

489 Selby, F., & Co., Longmore-st., Birmingham.—Axles, springs, ironwork lamps, &c.

490 Singer & Co., Coventry.—Bicycles, tri-cycles, and accessories.

491 Smith, T., & Sons, Birmingham.—Iron stampings, cycle accessories, &c.

492 Thomson, Robert, Birmingham, England.—Landau C Spring, without perch, fitted with brake, improved patent automaton heads, opening from the front pillars, PATENT METALLIC GLASS FRAMES, giving the greatest possible amount of light, never require repairs, patent Metallic Front and Back Lights, Improved Slam Locks, and all the most modern improvements. Weight, 9½ cwt.

483 Vickers, Sons & Co. Ltd., Sheffield.—Tyres, axles, crank shafts, &c.

484 Wild, J. & F. C., Borussia Works, Sheffield.—Cart and carriage springs.

485 Windover, Chas. Sandford, & Co. Ltd., New Bond-street, and Long Acre, London; 56 Avenue des Champs Elysees, Paris; Huntingdon; and Bombay. Carriage Builders to the Queen and Princess of Wales.

CARRIAGES of the most fashionable styles, and built of seasoned material, suitable for the Colonies, including Landau, Victoria, Improved Sliding "Tandem Cart," very light Pony Phaeton, Patent Cabriolet Buggy, Paris four-wheel Dog Cart, Rustic Cart, and their world-renowned "Ralli" Car, as supplied to the Princess of Wales.

Mr. Windover, our Managing Director, is an old colonist, and carried on business for many years in the colonies.

Represented by one of the firm.

Class 60.—Harness and Saddlery.

486 Bird, R., & Co., Crewkerne, Somersetshire.—Saddlery, girths, rollers, &c.

487 Croskee & Son, Mosely-st., Birmingham.—Brass and silver harness furniture.

488 Curtis, D., 59 Tenby-st. North, Birmingham.—Patent zinc collar pads for the prevention of horses' sore necks.

489 Davis & Wilton, Sun-street West, Birmingham.—Hunting, stockmen's, riding, and other whips.

490 Fairbanks, Lavender & Sons, Eldon Works, Walsall.—Saddlery, harness, spurs, stirrups, whips, &c.

491 Hart, A., Crewkerne, Somerset.—Webbings and girths for saddlery purposes.

492 Lee, F., 65 Long Acre, London.—Saddlery, harness, &c.

493 MacMahon, Sir C., 22 Leeson-st., Dublin.—Saddles, harness, and bits.

494 Mason, D., & Sons, Bath-row, Birmingham.—Harness and saddlery, whips, &c. Representative: T. K. Steanes, 56 Margaret-st., Sydney; and Office, British Court.

495 Osakes, W. J., 118 Alma-st., Aston, Birmingham.—Spurs, bits, and stirrups.

496 Power, J. P., care of W. Brookes & Son, Walsall.—Saddlery.

497 Read, H., 91 and 92 Mott-st., Birmingham.—Saddlery, stable, and household brushes.

498 Zair, G. & J., Bishop-st., Birmingham.—Whips. G. & J. Zair's Whips, bearing their name or the "Stag's Head" brand, as a guarantee of quality, are well known throughout Australia and New Zealand for their superior style and excellent wearing qualities.

They gained the highest awards at Sydney, 1879; Melbourne, 1880; and Adelaide, 1887.

MERCHANTS, AND MANUFACTURERS' AGENTS,

13 WILLIAM STREET, MELBOURNE.

859 Wilson, J. J. & W., Limited, Woolen Manufacturers, Castle Mills, Kendal.



Trade Mark.

TRAVELLING RUGS—

Fine silk, bound as "Belgravia," "Winder-mere," &c. Reversible and Plain Fringed Wraps, Long Scotch Plaids, Imitation Seal Rugs, &c., &c.

CLOTHING—

Tweeds, Cheviot, Saxony, and Worsted; Serges, Coat Linings, and other Fancy Plaid Linings.

SADDLERY—

Horse Sheetings for Winter and Summer, Collar Checks, &c. Roller and Girth Webs in the piece.

Horse Clothing, Girths, Braces, Belts (worsted, silk, and elastic), made up.



Trade Mark.

London Warehouse: 2 ALDERMANBURY AVENUE, E.C.

Class 61.—Railway Apparatus.

860 Allport, D., 7 St. Bennet's-place, London.—
Railway doors.

861 Avery, W. & T., Digbeth, Birmingham.—
Patent automatic grain weighers and checkers for weighing grain into sacks or bulk.

862 Brown, Marshall & Co., Britannia Carriage and Waggon Works, Birmingham.—
Railway carriages.

863 Bullivant & Co., 72 Mark-lane, London.—
Tramways.

864 Cammell, C., & Co. Ltd., Cyclops Works, Sheffield.—
Railway springs and buffers, tyres, and axles.

865 Capon, Heaton & Co., Lifford Mills, Birmingham.—
Indiarubber springs, pads, and pipes for railway carriages.

866 Cocker Bros. Ltd., Nursery-street, Sheffield.—
Springs, &c., for railway wagons and tramways.

867 Crompton, R. E., & Co., Mansion House-buildings, London.—
Motors for transmission of power.

868 Hæmatite Steel Co., Barrow-in-Furness, Lancashire.—
Steel rails, fish plates, angles, bars, hoops, &c. H. B. Hardt, Representative.

869 Kitson and Co., Airedale Foundry, Leeds.—
Locomotives.

870 Monk Bridge Iron and Steel Co. Ltd., Whitehall-road, Leeds.—
Railway apparatus.

871 Patent Nut and Bolt Co. Ltd., London Works, Birmingham.—
Fishplates, spikes, rivets, &c., used in constructional railway work.

872 Sandberg, C. O., 19 Great George-st., Westminster, London.—
Rail pieces, steel rails, &c.

873 Shaw, Charles, Helena-st., Birmingham.—
Model of a patent railway apparatus called "The Platelayer's Signalling Apparatus."

874 Spencer, J., & Sons, Newburn-st. Works, Newcastle-on-Tyne.—
Separate pieces of machinery used for railway apparatus.

875 Willans, Arnold & Colley Limited, Spanish Steel Works, Sheffield;
Makers of all kinds of Cast, Shear, Spring, and Lathe Tool Steel; Crucible Steel Castings of every description; Hammers and Edge Tools; Grey Steel Pig, for melting in the ordinary cupola; Railway Springs and Patent Cast-steel Buffers.

876 Westinghouse Brake Co. Ltd., King's Cross, London.—
Apparatus showing the working of the Westinghouse automatic brake.

Class 62.—Electric, Pneumatic, and other Apparatus and Processes.

877 Anderson & Munro, 136 Bothwell-st., Glasgow. Works—Moncrieff-st. and Kelvin-st., Glasgow. Makers of Electrical Fire Alarms and Electric Light Appliances, Street Fire Alarms, Glasgow System.

This System received only Award (Medal) at Edinburgh International Exhibition. It intimates 172 Fires last year, and failed on no occasion. Accidental "Earths" give notice, but no alarm.

878 Crompton, R. E., & Co., London and Chelmsford.—
Dynamo electric machines for arc and incandescent lighting.

879 Eastern Extension Australasian, & China Telegraph Co. Ltd., 50 Old Bond-st., London.—
Translation switches, &c.

880 Gent & Co., Faraday Works, Leicester.—
Electric call annunciators, fire and burglar alarms, &c.

881 Greenwood & Batley, Leeds.—
The Leeds patent dynamo.

882 Joel, H. F., & Co., 31 Wilson-st., London.—
Engine dynamo, Pilsen arc lamp, &c.

883 Martineau & Smith, Holloway Head, Birmingham.—
Electric bells and fittings.

884 Mayfield, Cobb & Co. Ltd., 35a and 41 Queen Victoria-st., London.—
Electric bells, batteries, &c.

885 M'Mullin, M., 35 St. George's-square, London.—
Electrical wands, bouquets, &c.

886 Patent Nut & Bolt Co. Ltd., London Works, Birmingham.—
Telegraph insulators.

887 Shand, Mason & Co., London.—
Electric lamps.

888 Woodhouse & Rawson Ltd., 11 Queen Victoria-st., London.—
Electrical Apparatus. Contractors to H. M. Government, leading Railway Companies, &c. Highest Award Adelaide, 1887; and wherever previously exhibited. Complete Sets of Plant for Colonial use. 110-page Catalogue, 1s. Contractors for Electrical Railways and Tramways, Electric Transmission of Power, &c.

Class 63.—Apparatus and Processes of Civil Engineering, Public Works, and Architecture.

889 Adams, R., 17 Blackman-st., London.—
Door springs, hinges, &c.

BRITISH EXHIBITS.

890 Anderson, D., & Son Ltd., Lagan Felt Works, Belfast, Ireland.—Model of wooden Lattice Girder Felted Roof. Model of Building, showing methods of using Felt and Silicate Cotton (or Slag Wool), for lining, deafening, and non-conducting purposes, and Felted Asphalt for preventing damp rising in walls. Models showing method of using Silicate of Cloth and Hair fabric for covering boilers and steam and water pipes. Roofing, Sarking, Sheathing, Lining, and Dry Hair Felts, and Felted Asphalt or Foundation Felt. Silicate Cotton (or Slag Wool) and Non-conducting Silicate Cloth.

891 Barron, F. C., & Co., cement manufacturers, Mansion House-chambers, London. Works: Falcon Works, Rainham, Kent.—Cement Agents: James MacDougall & Co., 17 Queen-st., Melbourne.

892 Biggs, F. I., Leadenhall-buildings, London.—Patent locks, sah fasteners, &c.

893 Braidwood, P. Murray, M.D., 35 Park-road South, Birkenhead.

PLANS FOR HOSPITAL SHIPS—"Shade Deck" and "Spar Deck," each 325 feet long, 3722 tonnage, and speed 13 knots per hour. To be used in time of war for carrying sick and wounded from the field of battle, as Ambulance Ships, and as Troop Ships.

During peace they can be used for the treatment of the sick on unhealthy coasts, as Isolation Ships, as Stationary Hospitals, or to carry "convalescent patients" from shore hospitals for a cruise.

894 Blackwall Galvanised Iron Co. Ltd., Corbet-court, Gracechurch-street, and Bow Creek, Blackwall, London.—Galvanised Iron.

This collection includes specimen Sheets of Galvanised Tinned Corrugated Roofing, of the Exhibitors'

"BLACKWALL"

BRAND.

some of which are specially designed for ornamental work, the corrugations being smaller than the ordinary 3-inch.

The Blackwall Galvanised Iron Company guarantee that only the best materials are used in the preparation of their Iron, every sheet being perfectly smooth when finished, even in corrugation and lap, and thoroughly sound in every respect.

Samples of working-up sheets are also included in the collection. These are made in several qualities, and branded respectively "POPLAR," "SPECIAL BLACKWALL," "BOW CREEK," "THAMES," and "BEST BEST BLACKWALL."

The Company also exhibit some Patent PEDESTALS and UMBRELLA STANDS, made from galvanised corrugated iron, and decorated to imitate marble. These are suitable for ornamental gardens, conservatories, halls, &c.

The Company's Works adjoin the East India Docks, London, thus placing them advantageously for delivering Iron promptly and in good condition.

At the last Melbourne Exhibition, and also at the recent Adelaide Exhibition, the highest awards were obtained by the Company.

895 Brooks, Shoobridge & Co., Gray's Essex, England. Head Office: 60 Fenchurch-street, London. Portland Cement Manufacturers. Branch Agencies: Messrs. Geo. Wood and Co., 8 Collins-street East, Melbourne; Messrs. R. M. Stewart and Co., 6 Spring-street, Sydney; Mr. Robert Donaldson, Balance-street, Wellington.—Portland Cement.

896 Buller, Jobson and Co., 32 Queen-st., London.—China door furniture.

897 Casebourne & Co., West Hartlepool.—Portland cement and testing machines.

898 Chubb & Sons Lock and Safe Co. Ltd., 128 Queen Victoria-st., London.—Patent banker's strong room construction.

899 Clark, Bunnett & Co. Limited., Rathbone-place, London, W., Engineers and Founders. Contractors to the War Office, H.M. Office of Works, &c.

Hydraulic Direct-acting Passenger Elevators.

Hydraulic Suspended Goods Elevators; Steam and Hand-power Elevators; Iron Staircases; Self-Gripping Crabs; Iron Buildings; Lift and Force Pumps, Valves, &c.; Revolving Steel Shutters; Metallic Venetian Blinds.

900 Coalbrookdale Co. Ltd., Coalbrookdale, Shropshire.—Cast-iron entrance gates and pillars.

901 Faija, H., C.E., 4 Great Queen-st., Westminster.—Cement testing machine and plant.

902 Gardner, Anderson & Clarke, 134 Fenchurch-st., London.—Illustrations of ironwork, comprising bridges, roofs, fireproof floors, &c.

903 Garrett, R., & Sons, Leiston, Suffolk.—Sand and salt distributor, for the construction and maintenance of roads and tramways.

904 Gibbs & Co. Ltd., Gray's, Essex.—Portland cement.

905 Glenboig Union Fire Clay Co., 4 Regent-st., Glasgow.—Bricks and paving tiles.

906 Helliswell, T. W., London and Brighouse.—Model patent imperishable glazing, without putty. Model patent zinc roofing, without fastenings.

907 Holmes, W. C., & Co., Huddersfield, Yorkshire.—Models and samples of gas apparatus.

908 Iron & Steel Fencing & Buildings Co. Ltd., Glasgow.—Patent roofing and general structural materials, in iron, steel, and other metals.

909 Jennings, G., Lambeth, London.—Sanitary apparatus and fittings complete.

910 Johnson, Clapham and Morris, 24 and 26 Lever-st., Manchester.—Fire-proof and vermin-proof cottage.

911 Jones, F., & Co., Perron-st., Kentish Town, London.—Silicate cotton-lined corrugated iron for the construction of huts, sheds, schools, &c.

912 Lee, William, Son & Co., 15 Upper Ground-street, London, S.E., Lime Burners and Cement Manufacturers.—Cement. Sole Agents for the Colonies: Messrs. Petsch, Döehling and Co., 2 Little Collins-st., Melbourne; 232 Kent-st., Sydney.

913 Macnaughton Bros., 48 West George-st., Glasgow.—Cast-iron pipes.

914 M'Ewan, J., & Co., 27 Lombard-st., London.—Portland cement (*see page 52*).

915 M'Lean & Co., 143 Cannon-st., London.—Portland and Keene's cement.

916 Plastic Decoration and Papier Mache Co., 21 Wellington-st., London.—Capitals and pedestals for columns, pilasters, &c.

917 Postlethwaite, M., The Hollins, Whitehaven.—Patent gate-stop.

918 Preston, E., & Sons, Whittall-st., Birmingham.—Rules, spirit levels, shaves, and carpenters' improved tools.

MELBOURNE CENTENNIAL INTERNATIONAL EXHIBITION.

M'EEwan, James, & Co., Ltd., 27 Lombard-st., London.—Portland Cement.

BEST LONDON
PORTLAND CEMENT.

THE ATTENTION OF
MERCHANTS, IMPORTERS, AND CONTRACTORS

IS SPECIALLY CALLED TO THE WELL-KNOWN

GRESHAM

BRAND



WHICH HAS BEEN LARGELY USED

WITH THE

BEST RESULTS

ON THE

PRINCIPAL WORKS

THROUGHOUT THE

AUSTRALIAN AND NEW ZEALAND COLONIES AND INDIA.

Works: HALLING, ON THE MEDWAY, KENT, ENGLAND.

Prices quoted f.o.b. London, or c.i. & i. at all ports,

ON APPLICATION TO

JAMES McEWAN & CO. LIMITED,

MELBOURNE;

AND

27 LOMBARD STREET, LONDON, E.C.

- 919 Previte & Greig**, 2 Crosby-square, London.—Portland cement and roofing slates.
- 920 Read, H.**, 91 and 92 Mott-st., Birmingham.—Brushes for painters' and paperhanglers' use, household purposes, &c.; and general brushware. Agents : Nason & Co., 263 George-st., Sydney.
- 921 Robey & Co.**, Lincoln.—Vertical hoisting engine.
- 922 Robins & Co. Ltd.**, 7 Westminster-chambers, London.—Portland cement and articles made therefrom. Agent : H. Todd, 1 Flinders-lane West, Melbourne.
- 923 Rogers, J.**, 19 and 24 Queen's-square, Belfast.—Roofing felt, sacking or lining felt.
- 924 Sessions, J., & Sons**, Gloucester.—Lavatories, &c.
- 925 Verity Bros.**, Call-lane, Leeds.—Ventilators and locks.
- 926 Walker & Wortley**, 14 Edmund-st., Birmingham.—Locks, brass foundry, and wash-fasteners. Agents : Balfour, Elliott & Co., 5 Queen-st., Melbourne.
- 927 Willesden Paper and Canvas Depot**, 34 Cannon-st., London (Spalding & Hodge).—Office built of "Willeeden" roofing.
- 928 Wood, Geo., & Co.**—Cement.



Melbourne Office : 8 Collins-st. E., Geo. Wood & Co., Agents.
New York Office : 7 Bowling-green, G. J. Stephens, Agent.
Sydney Office : 6 Spring-st., R. Morison Stewart, Agent.
New Zealand Office : Balance-st., Wellington, Robt. Donaldson, Agent.
London Office : 60 Fenchurch-st.
Works : Grays, Essex, England.

Class 64.—Navigation and Life Saving.

- 929 Ayling, E., & Sons**, Vauxhall, London.—Oars, sculls, and canoe paddles; patent button used by Oxford and Cambridge Universities.
- 930 Chance Bros.**, Lighthouse Works, near Birmingham.—A first-order group flashing diaphroic light.
- 931 Greenock Steamship Co.**, Glasgow.—Model of s.s. "Gulf of Aden." Agents : Dalgety & Co. Limited, Melbourne.
- 932 Hancock, J. L.**, 286 Goswell-road, London.—Diving dress and pipe.
- 933 Holmes Lights Co. Ltd.**, 18 Adam-st., Adelphi, London.—Dummy patterns of Holmes' inextinguishable marine signal light.
- 934 Horne, W. C.**, 6 Dowgate-hill, London.—Life-buoys and signals.
- 935 Hunt & Mitton**, Oozell-st. North, Birmingham.—Fire appliances.
- 936 Muir & Houston**, Kinning-park, Glasgow.—Steamships and steam yacht models.

- 937 Orient Steam Navigation Co. Ltd.**, 18 Fenchurch-avenue, London, E.C.

EXHIBITS :

- Full Model of s.s. "Ormuz."**
Built by the Fairfield Shipbuilding and Engineering Co. Ltd. (late John Elder & Co.), Govan, Glasgow, 1885.
Gross tonnage, 6116.
H.P. effective, 8500.
Length, 495 ft.
Breadth, 52 ft.
Depth, 37 ft.
Water-colour Painting of s.s. "Ormuz," off Eddystone, by W. L. Wyllie.
- Half Model of s.s. "Austral."**
Built by Messrs. John Elder & Co., Govan, Glasgow, 1882.
Gross tonnage, 5588.
H.P. effective, 7000.
Length, 458 ft.
Breadth, 48 ft. 5 in.
Depth, 37 ft.
Oil Painting of s.s. "Austral," off Gravesend, by F. Baden Powell.
- Half Model of s.s. "Orient."**
Built by Messrs. John Elder & Co., Govan, Glasgow, 1879.
Gross tonnage, 5384.
H.P. effective, 6000.
Length, 445 ft. 6 in.
Breadth, 46 ft. 3 in.
Depth, 35 ft. 1 in.
Oil Painting of s.s. "Orient," at sea, by Walters, of Bootle.

Framed Profile Plan of s.s. "Austral," showing interior arrangements of the steamer.

- 938 Palmer's Shipbuilding & Iron Company Ltd.**, Jarrow-on-Tyne. (The most extensive Shipbuilding Company in the World.)

IRONMASTERS & IRON ORE IMPORTERS.
MANUFACTURERS OF PIG IRON.

Cleveland Pigs—Brand, "Jarrow."
Hematite Pigs—Brand "Tyneside."

Kentridge, Castings, &c.

MANUFACTURERS OF IRON AND STEEL.
Steel Ingots and Blooms.

Plates and Angles.

Tees, Sheets, &c., &c.

MAKERS OF MARINE ENGINES AND BOILERS.

Stationary Engines.

Forgings, Castings, &c.

SHIPBUILDERS IN IRON AND STEEL.

War Ships of every class.

Armoured Vessels and Cruisers.

Torpedo and Despatch Boats.

Mail and Cargo Steamers

SHIP REPAIRERS.

Works and General Offices—Jarrow-on-Tyne.
London Offices—57 Gracechurch-street, E.C.

- 939 Parkes, H. P., & Co.**, Tipton, Staffordshire.—Anchors.

- 940 Patent Ferrule Co.**, Sheepcote-st., Birmingham.—Shipping tackle.

- 941 Peninsular and Oriental Steam Navigation Co.**, 122 Leadenhall-st., London.—Models, paintings, and photographs of steamers.

- 942 Sadler & Co.**, Horselydown, London.—Divers air pumps.

- 943 Siebe, Gorman & Co.**, 187 Westminster Bridge-road, London.—Diving apparatus.

- 944 Swan & Hunter**, Wallsend, Newcastle-on-Tyne.—Models and photographs of steamships.

- 945 Thompson, G., & Co., 24 Leadenhall-st., London.—Model of steamship "Damascus." Agents : Dalgety & Co. Limited, Melbourne.
 946 Thurnycroft & Co., Church-wharf, Chiswick, London.—Models of torpedo boats.
 947 Turk, R. J., Kingston-on-Thames.—Rowing skiff and canoe.

Class 65.—Materials and Apparatus for Military Purposes.

- 948 Armstrong (Sir W. G.), Mitchell & Co. Ltd., Elswick Works, Newcastle-on-Tyne.—Hotchkiss guns and models of other guns.
 949 Bullivant & Co., 72 Mark-lane, London.—Bullivant's patent torpedo net defence.
 950 Clarke, F., & Co., Pave John Works, Canterbury.—Moving and vanishing targets, miniature targets, and models of targets.

- 951 Etherington, H., 152 Fleet-st., London.—Swiss chalet for rifle shooting.
 952 Greenwood & Batley, Leeds.—Whitehead fish torpedoes.
 953 Harne, W. C., 6 Dowgate Hill, London.—Model of Bruce's patent electrical balloon for night signalling for military purposes.
 954 Joyce, F., & Co., 57 Upper Thames-st. London.—Military percussion caps, &c. Agents : Nason & Co., 268 George-st., Sydney.
 955 Kynoch, G., & Co. Ltd., Witton, Birmingham.—Military and sporting cartridges.
 956 MacMahon, Sir C., 22 Leeson-st., Dublin.—Movable magazine rifles.
 957 Stillwell & Sons, 25 Barbican, London.—General military accoutrements.
 958 Tomkins, A. S., Holmwood, Caterham.—Military wagon, tent, and field kitchen.

VIII.

Alimentary Products.

- Class 66.—Cereals, Farinaceous Products, and Products derived from them.**
 959 Brown & Poison, Royal Starch Works, Paisley, Glasgow.—Cornflower, a product of maize for culinary use, and other products of maize.
 960 Collier, J., & Sons, Commercial-st., Spital-fields, London.—Sago, flour, and arrowroot.
 961 Gilman & Spencer Ltd., Castle Brewery, St. George's-road, Southwark, London.—Rizine, cereals, gelatinised and torrified malt.
 962 Gunn, George, Victoria Mills, Bath. Purveyors of Oatmeal to Her Majesty.



By Appointment.

- ROLLED WHITE OATS AND FOOD OF LIFE.**
 Rolled Oats for Porridge, prepared in 15 minutes, are more digestible and nutritious than ordinary Oatmeal.
 Food of Life, for Infants and Invalids, is unexcelled, and is specially suitable for hot climates. Makers to the Queen.
 Agents : Harry Dix & Co., 65 William-st., Melb.
 963 Kranz's Patent Food Company, 42 Cheapside, London.—H. Dix & Co., Representatives, Melbourne.



An original imperishable food, scientifically cooked and dessicated, highly nutritious, easiest of digestion, excellent for dyspeptics, infants, and invalids.

- 964 Kepler Malt Extract Co. Ltd., Snowhill-buildings, London.—Kepler's extract of malt.
 965 Keen, Robinson, Belville & Co., 6 Garlick-hill, London.—Patent barley and groats for gruel, and infants' and invalids' food.
 966 Maconochie Bros., London and Lowe-stoft.—Cereals, farinaceous products, and products derived from them.
 967 Mold, W. H., Betherden, Ashford, Kent.—Ennobled wheat and oats.
 968 Spratt's Patent Ltd., Henry-st., Bermondsey, London.—Poultry, game, and cattle foods.
 969 Sutton & Sons, Royal Seed Establishment, Reading.—Wheat, barley, rye, oats, maize, millet &c.

Class 67.—Bread and Pastry.

- 970 Scott, A. & R., 59 Crookston-st., Glasgow.—Midlothian oat flour, for infants and invalids ; biscuits, oatcakes, and oatmeal.
 971 Spratt's Patent Ltd., Henry-st., Bermondsey, London.—Ship biscuits, and patent meat biscuits containing beetroot and fish.

Class 68.—Fatty Substances used as Food, Milk, and Eggs.

- 972 Kepler Malt Extract Co. Ltd., Snowhill-buildings, London.—Kepler's solution of cod-liver oil in extract of malt.
 973 Maconochie Brothers, London and Lowe-stoft.—Fatty substances used as food.

Class 69.—Meat and Fish.

- 974 Crosse & Blackwell, 21 Soho-square, London.—Preserved meats and fish.
 975 Dunn, David, & Son, 64 Robertson-st., Glasgow. Established, 1833. Fish Curers and Export Fish Merchants.

Case Dried Ling.
 Cascles Pickled Herrings.

Fresh, Kippered, and Red Herrings; Finnan Haddock; Fresh Salmon and Cod, in tins.

SYMINCTON'S "EDINBURGH" COFFEE ESSENCES

BRITISH EXHIBITS.

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ARE USED ALL OVER THE WORLD.

TRY THEM !

- 976 Gridley & Co.**, Bishopsgate-avenue, London.—Isinglass in its natural and manufactured state.
- 977 Maconochie Bros.**, London and Lowestoft.—Meat and fish.
- 978 Mair, J.**, Lewis-st., Stornaway.—Fish.
- 979 Marshall & Co.**, Spring Garden Works, Aberdeen.—Fish Curers and Export Fish Merchants, "Crown Brand" Dried Ling in tin-lined Cases and Puncheons. Fresh, Kippered, Salt, and Red Herrings. Herrings in Tomato and Shrimp Sauce, and Finnan Haddocks.
- 980 Perry, W. T. L.**, Mount's Bay Steam Works, Penzance.—Marinated pilchards, prepared in vinegar with bay leaves.

Class 70.—Vegetables and Fruit.

- 981 Birmingham Vinegar Brewery Co.**, Ashted-row, Birmingham.—Holbrook's pickles.
- 982 Crosse & Blackwell**, 21 Soho-square, London.—Preserved vegetables and fruits.
- 983 King, F., & Co. Ltd.**, London and Belfast.—Edwards' preserved potato, and Edward's desicated soups.
- 984 Maconochie Bros.**, London and Lowestoft.—Vegetables and fruit.
- 985 Smith, B. A.**, 4, 5, and 6 Great St. Helen's, London.—Pickles.
- 986 Sutton & Sons**, Royal Seed Establishment, Reading.—Models of vegetables and dry farinaceous vegetables.

Class 71.—Condiments and Stimulants, Sugar and Confectionery.

- 987 Beare, Gosnell Co.**, London.—"Distil" Coffee Extract and Essence of Coffee with Chicory, requiring only the addition of boiling water.



Represented by Lincoln, Stuart & Co., 109 Flinders-lane East, Melbourne.

- 988 Bernard & Co.**, Leith, Scotland.—Lime-juice cordial.
- 989 Carling, E. W., & Co.**, Botolph House, Eastcheap, London.—Saccharines, syrups, sugars.
- 990 Champion & Co. Ltd.**, City-road, London.—Mustard and vinegar.
- 991 Cherry & Smalldridge**, Seville Works, Dublin.—Mustard. Secured Medals — London, Liverpool, Dublin, New Orleans, Cork.
- 992 Collier, J., & Sons**, Spitalfields, London.—Cocoa and chocolate in all forms, mustard, extract of coffee, table jellies, bottled fruits, tarts.
- 993 Colman, J. & J.**, 108 Cannon-st., London.—Mustard, mustard products, and samples showing process of manufacture.
- 994 Crosse & Blackwell**, Soho-square, London. Purveyors to the Queen.
PICKLES, SAUCES, JAMS, JELLIES, MALT VINEGAR, AND TABLE DELICACIES.
Agents: Virgoe, Son & Chapman, Melbourne.

- 995 Crosse's Manufacturing Co. Limited**, Catherine Court, Tower Hill, London, E.C. Crosse's Lime, Lemon, & Orange Fruit Cordials. Crosse's Lime Juice, Refined and Fortified. Crosse's Lime Juice Sauce and "Currette," Crosse's Aromatic and Fruit Cordials. Crosse's Indian Bojee Relish. Crosse's Raspberry and Table Vinegar. Alexander's Beef Wine. Crosse's Aromatic Bitters.

- 996 Denniford, T., & Son**, Plymouth, England, Manufacturers of Gold Medal Mineral Waters. Awarded Gold Medal and Diploma, London, 1885. Prize Medal of the First Order of Merit, Adelaide, 1887.

- 997 Evans, Sons & Co.**, 56 Hanover-street, Liverpool (EVANS, LESCHER AND WEBB, 60 Bartholomew-close, London).—Lime-fruit Juice and Preparations.

Trade Mark
"MONTSERRAT."

The preparations included in this collection are manufactured from Lime-fruit Juice, imported from Montserrat, a small island of the Antilles group, celebrated for its lime orchards. The plantations of the Montserrat Company cover more than 600 acres, and contain 12,000 trees. The introduction into England of the Exhibitors' Lime Juice has met with marvellous success, the importation since 1878 reaching the enormous quantity of over 100,000 gallons per annum.

Messrs. Evans, Sons & Co., Exhibitors, in conjunction with Messrs. Evans, Lescher & Webb, London, and Messrs. Evans, Sons & Mason Ltd., Montreal, Canada, are the Sole Consignees.

- 998 Fry, J. S., & Sons**, Bristol and London.—Chocolate, pure cocoa, chocolate confectionery.

- 999 Grimbie & Co.**, Cumberland Market, London.—Various samples of vinegar in bottles.

- 1000 Holbrook & Co.**, Birmingham Vinegar Brewery Company Limited, Birmingham.—Sauces, Pickles, and Vinegar.

Highest Award, Adelaide, 1887. Representative at this Exhibition: Arthur Day.

- 1001 Jennings, T.**, Brown-st., Cork.—White, crystal, brown, and other vinegars.

- 1002 Keen, Robinson & Belville**, Garlick-hill, London.—Mustard in various stages of manufacture.

- 1003 Linton, Hubbard & Co.**, Red Lion-square, London.—Dessicated cocoanut in various forms.

- 1004 Maconochie Bros.**, London and Lowestoft.—Condiments and stimulants, sugar and confectionery.

- 1005 Mellor & Co.**, Worcester.—Sauce, piquant and mild, for soups; fish, chops, steaks, &c. Agents: Lange & Thoneman, 69 and 71 William-st., Melbourne.

- 1006 Moss, Rimmington & Co.**, Portholme Mills, Selby, Yorkshire.—Mustards.

- 1007 Newball & Mason**, Park-row, Nottingham. Manufacturing Chemists.

Sole Manufacturers of Extracts and Essences for the immediate Production of Non-Intoxicating Beverages, including EXTRACT OF HERBS. One Tablespoonful of the Extract makes a Gallon of Prime Botanic Beer.

EXTRACT OF HOPS, for Hop Ale.

„ „ HOREHOUND, for Horehound Beer.

„ „ GINGER ALE, for Ginger Ale.

„ „ „ „ for Ginger Beer.

„ „ LEMON ALE, for Lemonade.

All these are used in same way in order to make a Beverage.

WINE ESSENCES.—A Tablespoonful, with the addition of sugar, will make Two Quarts of Temperance Wine. Kinds: Ginger, Lemon, Raspberry, Black Currant, Red Currant, Cowslip, &c. Sold in bottles at 6d., 1s., 2s., and 5s. each.

MACONOCHEE BROTHERS, AGENTS, SYDNEY.

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1008 Sardow, H., & Co., 9 and 10 Red Cross-st., London.—Flavouring essences.

1009 Smith, B. A., 4, 5, 6 Great St. Helen's, London.—Sauces, curry powder, vinegar, bottled fruits, jams, salt, &c.

1010 Sparagnapane, G., & Co., 47 Milton-st., London.—Ornamental confectionery.

1011 Symington, Thos., & Co., Coffee Essence Manufacturers, Edinburgh and London. Represented by Maconochie Brothers, Sydney.



These Coffee Essences are now used all over the world, in the camp, on shipboard, at the diggings, on the prairie, in the cottage, and the palace. To be obtained through every grocer, storekeeper, or chemist.

1012 The Droitwich Salt Company Ltd., Exhibit samples of Refined Ground Table Salt, Double-stoved Broken Fine Salt, Coarse Salt in various grains, Patent Butter Salt, Bay Salt, 1 and 2 lb. packets, Refined Table Salt, 2-lb. Glass-stoppered Bottles Table Salt, 2-lb. Stone Jars Table Salt, Calico Bags, various sizes, Table Salt.



1013 Terry, Joseph, & Sons, Clementhorpe, York.—Confectionery.

This firm was originally established in 1767, having for its object or purpose the supplying of Chemists (more particularly) with various articles of Confectionery and the production of Lozenges with medicinal properties. Since this period, however, variety has entered so largely into the trade, that several distinct branches now make up the business, comprising all goods, either medicinal or otherwise, used by Chemists—Candied Lemon, Orange and Citron Peels, Chocolates and Cocoas, and Fancy Goods under the name of French Confectionery. A separate department arranges the many articles for which the travelling public and others make a special demand, viz., the Fancy Packets and Boxes. Samples of each are shown in this exhibit.

The Medicated Lozenges receive the greatest possible attention of the firm, and are under special supervision, every care being taken to produce all Lozenges of value, which from time to time appear in Pharmacopoeias and other Standard Works. Proprietary Lozenges are also prepared.

CANDIED PEELS.—This department, a large and important feature, has recently been much extended to meet demands.

CHOCOLATE AND COCOA.—In this department the production is from the finest and most select materials. Fancy Chocolates, Creams, Bonbons, &c., numerous kinds are manufactured, and along with this is included French Confectionery under the supervision of most experienced workmen and the latest improvements in machinery.

As regards materials manufactured generally, the greatest care is exercised, particular attention being given to the essential oils and those additions required to produce the finest flavour; likewise in all drugs. All colouring matters employed are perfectly harmless.

Seven Prize Medals have been awarded to the firm with numerous Diplomas.

1014 Warwick Bros., Old Swan-lane, London.—High-class and medicated confectionery.

1015 Weston & Westall, 115 Lower Thames-street, London, E.C., agents to John Corbett, M.P., Stoke Prior Salt Works, Worcestershire, Proprietor of the Celebrated Black Horse Brand.



WESTON & WESTALL LONDON AGENTS

Exhibit: Handsome Trophy formed out of Pure Salt; also samples of Fine Stoved Salt for the Dairy, Provision Curing, Domestic Uses, &c.; Coarse Salt for Butchers, Hide Curers, Soap-makers, &c.; Bay Salt, Double Refined Table Salt in Packets, Jars, and Bottles; Powdered Household Salt in White Linen Bags, from 1 lb. to 28 lb., &c.

1016 Woodward, M., & Sons, Dingle, Liverpool.—Chewing gums, caramels, &c.

Class 72.—Fermented and Distilled Drinks.

1017 Ainslie, J., & Co., Leith, Scotland.—Scotch whisky in bulk and bottle.

1018 Aitken, James & Co., The Brewery, Falkirk.—Pale Ale. This old established and well-known Brand has taken a first place wherever exhibited in Australia, and, being specially brewed to suit the climate, will be found to be a most agreeable and wholesome Beverage, remarkable for its brilliancy, purity, and refreshing lightness. Agents for Victoria: Messrs. James McDougall & Co., 17 Queen-street, Melbourne.

1019 Alison, G. L., London and Dundee.—Old Scotch blended bottled whisky, labelled "Bonnie Dundee."

1020 Associated Vineyards Society.—Branies, bulk and case.

1021 Banagher Distillery Co. Ltd., The, Banagher, Ireland. Finest Irish Whisky.



Agents: Messrs. H. J. Langdon & Co., Melbourne.

1022 Beadlestoney & Woerz, Empire Brewery, New York, U.S.A.—Lager Beers, Ales and Porter. Melbourne Importer: C. D. Hicks.

1023 Bernard & Co., Leith, Scotland.—Encore whisky, Old Tom gin, ginger wine.

BURSTALL & CO., 14 Queen Street.

BRITISH EXHIBITS.

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- 1024 Boake, Roberts & Co., Stratford, London.—Wine and beer finings and preservatives, caramels for colouring beer, spirits, &c.
- 1025 Buchanan, J., & Co., Glasgow, Leith, and London.—Old Highland whisky.
- 1026 Bushmills Old Distillery Co. Ltd., 1 Hill-st., Belfast.—Old Irish whisky, from pure malt only.
- 1027 Calder & Co., J., Alloa.—“Bee” brand ale, bulk and case.
- 1028 Carling, E. W., & Co., Botolph House, Eastcheap, London.—Whiskies and brandies.
- 1029 Cooper & McLeod, Castle Brewery, Edinburgh.—India pale ale.
- 1030 Dewar, John, & Sons, Perth, N.B.; and 5 & 7 Warwick-street, Charing Cross, London.—Old Highland Whisky. Medal, Edinburgh, 1886. Australian Agents wanted.
- 1031 Distillers Co., The, 12 Torpichen-st., Edinburgh.—Samples of various ages and qualities of Scotch and Irish whiskies, London gin, Old Tom, &c.
- 1032 Dublin Whisky Distillery Co., Dublin.—Whisky possessed of special medicinal properties.
- 1033 Dunville & Co. Ltd., Royal Irish Distilleries, Belfast.—Old Irish whisky.
- 1034 Fells, J. E., Henry-st., London.—Wines and spirits.
- 1035 Ferguson, A., & Co., 106 and 108 West Regent-st., Glasgow.—Whisky. Agents: Welch, Perrin & Co., Moray-st., South Melbourne.

1036 Gaymer & Son's Norfolk Cider. Agents: Messrs. Gibbs, Bright & Co., Melbourne.

IN BOTTLE, LABELLED AS UNDER.



This Cider is “GUARANTEED APPLE JUICE,” made from the finest fruit, grown on the most suitable soils, prepared under our own personal supervision, for home use or shipment to any climate, and can be confidently recommended as a good and wholesome beverage, suitable either for Summer or Winter use.

In bottle especially, IF LAID DOWN, it will stand the test of time, being much improved by keeping. Before opening, each bottle should be placed upright for a few days.

1037 Goulding & Co. Ltd., Dublin and Cork.—Bottled stout, ale, and whisky—“Reindeer” brand.

BURSTALL & CO., 14 Queen Street.

- 1038 Greer, W., & Co.—Scotch whisky.
- 1039 Holland & Co. Ltd., Deptford Distillery, London.—Old Tom and dry gin.
- 1040 Jameson, W., & Co., Dublin.—Whisky, in bottle and wood.
- 1041 Khoosh Tonic Bitters Co. Ltd., London and Liverpool.—Khoosh bitters, for use in wines, spirits, and liqueurs.
- 1042 Kinahan & Co., Carlisle-buildings, Dublin.—Fermented and distilled drinks.
- 1043 Kirker, Greer & Co., Belfast and Glasgow.—“Shamrock” old Irish whisky, “Loch Dhu” old Scotch whisky.
- 1044 MacDougall, J., & Co. (late R. Morrison & Co.), 39 Stockwell-st., Glasgow.—Scotch whiskies.
- 1045 Maconochie Bros., London and Lowestoft.—Fermented and distilled drinks.
- 1046 Marrian, J., & Co. Ltd., Sheffield.—Bulk ale.
- 1047 Mitchell & Co. Ltd., Belfast.—Old Irish whisky, “Heather Dew” Scotch whisky.
- 1048 Morrison, R., & Co., Glasgow.—Whisky, brand “O.M.G.” Agents : Lange & Thoneman, 69 & 71 William-st., Melbourne.
- 1049 M’Carthy, J., & Sons, Cork.—“Clancarty” and “Irish Potheen” whisky.
- 1050 M’Nab, Andrew, & Co., Glasgow and Leith.—“Galley” Brand of Fine Old Highland Whisky. Sole Agents : J. B. Downie & Co., 31 Market-street, Melbourne.

1051 Nolet, A. C. A., Schiedam, Holland, Geneva. Aromatic Schnapps, Liqueurs of all kinds.



The “Wine Trade Review” says:—“Samples of Nolet’s Aromatic Schnapps have been submitted to the judgment of Dutch experts, who are very well acquainted with genuine Schiedam, and they all consider the quality excellent, and worthy to be recommended as genuine Schiedam Schnapps.”

The “British Trade Journal” says:—“A very genuine Schnapps, perfectly pure and suitable for export, can be had from Mr. A. C. A. Nolet, Schiedam.”



The Agents are:—Melbourne, Messrs. Alex. Joske, Best & Co.; Tasmania, Messrs. Ferguson & Co., and Messrs. Burgess Bros., Hobart; Adelaide, Messrs. Geo. Wills & Co.; Sydney, Messrs. Douglas, Ross & Co.; Brisbane, Messrs. Wallace, Warren & Co.; Canterbury, N.Z., Messrs. Wood, Shand & Co.; and London, Messrs. Bulfield & Co., No. 37 Crutched Friars, Mark-lane, E.C.

1052 Ohlendorff & Co., 15 Leadenhall-st., London.—Beer, in bottles and casks.

1053 Pekin Tea Co.—Whisky.

1054 Rutherford & Kay, Edinburgh.—Scotch WHISKY. Dreadnought brand is a blend of the most famous Highland Distilleries, and is blended and bottled under the immediate supervision of Her Majesty’s Excise. Melbourne Importers : Messrs. James MacDougall & Co., 17 Queen-street.

1055 Slater, Rodger & Co. Ltd., Glasgow.—“Thistle” and “Glenlivet” Blends Scotch Whisky.



1056 Simson, J., & Sons, St. Mary’s Brewery, Edinburgh.—Ale.

1057 Thomson, J. G., & Co., 29 St. Andrew-st., Leith.—Scotch whisky.

1058 Tottenham Lager Beer Co., Tottenham, London.—Lager beer, pilsener, and champagne beer.

1059 Usher, A., & Co., Edinburgh.—Whisky.

1060 Walker, J., & Sons Ltd., 8 Crosby-square, London.—Whisky.

1061 Williams, W., & Sons, 38 Regent-quay, Aberdeen.—Old Scotch whisky of different ages.

1062 Woodward, M., and Son, Mites-st., Dwight, Liverpool.—Chewing gums, caramels, &c.

IX.

Sanitation, Medicine, Hygiene, and Public Relief.

Class 73.—Sanitary Appliances, Surgical Instruments, Plans, Models, &c.

1063 Best, I., & Son, 19 Summer-st., Birmingham.—Fracture apparatus and splints, fracture bed and invalid 1 ft.

1064 Braby, F., and Co., 360 Euston-road, London.—Carbolite filters.

1065 Breedon, J., and Co., Fazeley-st., Birmingham.—Cisterns, closets, valves, and cocks, &c.

1066 Cheavin, George, Wide Bar-gate Filter Works, Boston, England.—New Patent Removable Plate Gold Medal Rapid Water Filters.



Constructed on the most sound scientific principles, and yet so exceedingly simple that they cannot get out of order, and can be instantaneously taken to pieces, leaving the whole of the interior open for inspection and cleansing.

Improved Self-Acting Cistern Filters.
Improved Syphon or Pocket Filters.
Improved Ornamental China Filters.
Improved Refrigerator Filters.

Awarded—
Gold Medal, Melbourne, 1880.
Gold Medal, Adelaide, 1881.
Gold Medal, Perth, W.A., 1881.
Gold Medal, Christchurch, N.Z., 1882.
Gold Medal, Calcutta, 1884.
Gold Medal, Antwerp, 1885.
Gold Medal, Paris, 1879.
Gold Medal, Brussels, 1880.
Gold Medal, National Academy of France, Paris, 1887.

And highest awards at Sydney, London, Philadelphia, Amsterdam, Stockholm, Cape Town, Hull, and Manchester.

1067 Coxeter and Son, 4 and 6 Grafton-st., London.—Surgical instruments.

1068 Diver, E., Kenley, Surrey.—Surgical bands, pads, stockings, &c.

1069 Ewart and Son, 346 Euston-road, London.—Baths.

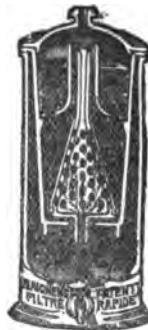
1070 Gent and Co., Faraday Works, Leicester.—Electric medical batteries and appliances.

1071 Hayward, J. H., Castle-gate, Nottingham.—Surgical appliances.

1072 Jones, Dr. G. H., 57 Great Russell-st., London.—Models of gold cylinders, enlarged, used in connection with dental surgery; dental apparatus, &c.

1073 MacMahon, C., 21 Leeson-park, Dublin.—Electric lamp.

1074 Maignen's "Filtre-Rapide" & "Anti-Calcaire" Co. Ltd., 32 St. Mary-at-Hill, Eastcheap, E.C.; 15 Pall-mall, S.W.; and 48 Commercial-street, Whitechapel, E.



1075 Mason, S., 58 Dale End, Birmingham.—Filter.

1076 Meyer and Meltzer, 71 Great Portland-st., London.—Surgical instruments.

1077 Morrison, Ingram & Co., Sanitary Engineers, Hadfield-st., Manchester.—Lavatories.

1078 Silicated Carbon Filter Co.—Works: Battersea, London, S.W., England.



SILICATED CARBON PATENT SELF-AERATING FILTERS, with MOBILE BLOCKS, from 1 to 12 gallons, in plain and decorated Stoneware.

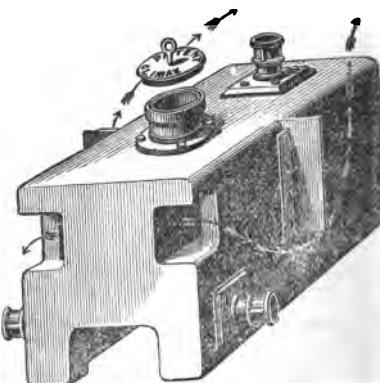
PATENT SELF-AERATING GLASS TABLE FILTERS; POCKET, EMIGRANTS', AND WICKERED SHIPS' FILTERS.

MAIN AND CONSTANT SUPPLY SILICATED CARBON FILTERS, for Brewers' and Mineral-water Makers' use, &c., &c.

Representative: T. K. Steanes, 56 Margaret st., Sydney; and Office, British Court.

1079 Slack and Brownlow, Hulme, Manchester.—Filters. Agents: Harry Dix & Co., 65 William-street, Melbourne.

HALL LANTERNS, BRACKETS, PENDANTS, AND GENERAL GAS FITTINGS.

- 1080 Quirk, Barton & Co., London.—Tin-lined gas and water pipes.
- 1081 Shanks and Co., Barhead, Scotland.—Baths, sanitary lavatories, cisterns, &c.
- 1082 Tylor, J., & Sons, 2 Newgate-street, London, E.C. Sanitary Engineers and Brass Founders, J. Tylor and Sons' "SPECIAL" REGULATOR VALVE CLOSET, with Galvanised Iron Trap above floor level, outlet adjustable to any angle. Clear-way regulator valve Closet, with enamelled-iron box and "Weir" overflow basin. "Compound," "Triad," and "Torrent" Closets, made specially to answer for Closet, Urinal, and Slop Sink in one, fitted with Bean's patent valveless waste-preventing cistern. Patent Syphon Cistern, &c. Traps and Appliances for the modern system of house drainage. Lavatories of all descriptions with quick wastes, weir overflows, &c., suitable for the cottage or mansion. Improved Slop Sinks. Syphon "flush-out" and other Urinals with automatic and treadle action. J. Tylor and Sons' Improved Spray bath apparatus with combined Plunge, Spray, Wave, Shower, and Douche. Bath Valves in variety. Bracket Shower bath apparatus. BRASS AND GUN METAL VALVES AND FITTINGS for Waterworks, patent Grooved Joints for fixing Lead Pipe without solder. House water service fittings, Air Valves, Sluice Valves, Hydrants, Fire Valves, Hose, &c. Patent Inferential and Positive Water Meters, patent "Bascule" Water Meters. Deep Well Pumps. Soda-water Machinery. Diving Machinery. All kinds of Plumbers' brass work and steam fittings, fountain jets, &c.
- Class 74.—Apparatus and Processes for Heating and Lighting.**
- 1083 Andrew & Co. Ltd., Stockport, Reddish and London. "Stockport" gas engines and dynamos for electric lighting.
- 1084 Bell, R., and Co. Ltd., 73 Queen Victoria-st., London.—Wax vestas, in tin and card boxes; also fancy decorated boxes.
- 1085 Booth, Samuel, & Co., Charside Works, Birmingham. Makers of High-class Decorative Work for Lighting purposes.
- Specialty: Pure Renaissance Chandeliers, &c. Also Makers of Fittings of the Best Class only, for Gas, Steam, and Water. Agent: Mr. F. Cadby, 28 Flinders-lane West, Melbourne.
- 1086 Bower, G., St. Neot's, Huntingdonshire.—The Bower gas lamp and general gas apparatus. Agents: Burstall & Co., 14 Queen-st., Melbourne.
- 1087 Breedon, J., and Co., Fazeley-st., Birmingham.—Small fittings, pillars, pendants, &c., for gas lighting.
- 1088 Bryant and May Ltd., Bow, London.—Manufactured matches of all kinds, and tinware.
- 1089 Clarke, S., Pyramid Works, Child's-hill, London.—Fairy lamps, for ornamental and lighting purposes, and pyramid lamps.
- 1090 Coalbrookdale Co. Ltd., The, Coalbrookdale, Shropshire.—Cooking ranges, fireplaces, grates, and fenders.
- 1091 Crompton, R. E., & Co., Mansion House Buildings, London.—Arc lamps.
- 1092 Dairy, C., 60 Mortimer-st., London.—Patent Albert gas globes.
- 1093 Defries, J., & Sons, 147 Houndsditch, London.—Brass and bronze lamps.
- 1094 Hayward Bros. and Eckstein, Union-st., Borough, London.—Semi-prism pavement lamps.
- 1095 Haynes, G., and Co., Stockport, Cheshire.—Candle and lamp wicks.
- 1096 Hartley & Sugden Ltd., Atlas Works, Halifax. Manufacturers and Patentees of Wrought, Welded, and Riveted Boilers, for Hot-water Heating Apparatus (Low Pressure System), Kitchen Range Boilers, Vertical Steam Boilers, Gas Boilers, Hot-water Valves, and Slow-combustion Stoves, &c., &c.
- 
- Awarded 33 Prize Medals and Certificates at various Exhibitions: London, Paris, Berlin Brussels, Manchester, Liverpool, Antwerp Dresden, &c., &c.
- 1097 Hunt, Harry, & Co., 12 New Oxford street, London, W.C. Works: Newington-green, London, N. England. Manufacturers of the Patent Argus Portable Kitchens.
- 1098 Jennings, George, Stangate, London.—Sanitary Engineer, Manufacturers of Bath-room Furniture, Improved Sanitary and Building Appliances, Warming and Ventilating Arrangements, Stoneware and Terra Cotta Goods, &c.
- Agents:
JAMES M'EWAN & Co. Ltd., Melbourne.
F. LASSETTER & Co. Ltd., Sydney.
- 1099 Jones and Willis, 260 to 264 Euston-road, London.—Lamp fittings.
- 1100 Joyner, Charles, & Co., Birmingham, Manufacturers of Chandeliers, Hall Lanterns, Brackets, Pendants, and general Gas Fittings.
- The goods in this exhibit fairly represent the ordinary quality of our manufacture, which will at all times be found of good finish and workmanship. Specialties—JOYNER'S PATENT EXPORT LANTERN in sections, JOYNER'S PATENT COMET GLOBE HOLDER.
- 1101 Kent, G., High Holborn, London.—Albon-carbon generators and electric lights.
- 1102 Kynoch, G., and Co., Wilton, Birmingham.—Martin's patent oil lamps.
- 1103 London and Birmingham Hardware Co. Ltd., 14 Charles-st., Clerkenwell, London.—Hall lamps, stoves, &c.
- 1104 Loveridge, H., and Co., Merridale Works, Wolverhampton.—Lamps.
- 1104a MacMahon, Sir C., 21 Leeson-st., Dublin.—Electric lamps.
- 1105 Mason, S., 58 Dale End, Birmingham.—Chandeliers.
- 1105a Martineau and Smith, Birmingham.—Gas and electric light fittings.

CHANDELIER MANUFACTURERS.

1106 Meyer and Meltzer, 71 Great Portland-st., London.—Lamps, for electric light, and dynamos, for medical works.

1107 Meynell and Sons, Montrose-st., Wolverhampton.—Gas fittings.

1108 Midland Lighting Co. (Frank Heath, Proprietor), Broad-st., Birmingham. Agents: Harry Dix & Co., 65 William-st., Melbourne.

THE "LAMPE BELGE."

TRADE MARK.

Safety, Simplicity, Economy.

Manufactured in Birmingham, England, by the Midland Lighting Company. Every variety of Table, Bracket, and Hanging Lamps.

1109 Morgan, J., and Son, Ducie Mills, Manchester.—Wicks for lamps and candles, and petroleum stoves.

1110 Nisbet, Percy, & Co., 1 Water-lane, Great Tower-st., London.

WING'S DISC FAN OR EXHAUSTER, FOR VENTILATION, DRYING, AND COOLING, OR THE REMOVAL OF STEAM, DUST, NOXIOUS FUMES, &c. This Fan has been THREE TIMES awarded the MEDAL of SUPERIORITY at the American Institute, New York—viz. in 1882, 1884, 1885, after public competitive test trials, and has also received the FIRST ORDER OF MERIT, Adelaide Exhibition, 1887, and GOLD MEDAL, Edinburgh Exhibition, 1886, in addition to other awards. Agents: Chas. Atkins & Co., 65 William-st., Melbourne.

1111 Pike, W. H., 18 Egypt-st., Liverpool.—Gas stove and burners.

1112 Radclyffe and Co., Old Tom Foundry, Leamington.—Kitchens and cooking apparatus.

1113 Russell, John, & Company Limited, Alma Tube Works, and Cyclops Iron Works, Walsall; Belmont Chandelier Works, Birmingham; Old Patent Tube Works, Wednesbury; also at London, Manchester, and Leeds.



Wrought-iron Tubes and Fittings, Chandeliers, Brackets, Brass Gas Fittings, &c.

1114 Sessions, J., and Sons, Gloucester. Chimney-pieces.

1115 Skelton, W. G., and Co., Sheffield Grate Works, Bridge-st., Sheffield.—A general selection of stoves, grates, fenders, and fire-irons. Representative: T. K. Steanes, 56 Margaret-st., Sydney; and Office, British Court.

1116 Sugg, W., and Co., Westminster, London.—Sugg's patent burners, globes, and lamps.

1117 Wigston Foundry Co., near Leicester.—Kitchen ranges, dog stove, and tiled and circular register stoves.

1118 Wright, J., and Co., Essex Works Birmingham.—Cooking-stoves and boilers.

1119 Yates, Haywood and Co., 95 Upper Thames-st., London.—Stoves.

X.

Agriculture and Associated Industries.

Class 75.—Specimens of Farm Buildings and Agricultural Works.

1120 Allen, E. E., and Co., 111 Cheyne-walk, Chelsea, London.—Portable cottage.

1121 Allport, D., 7 St. Bennet's-place, London.—A portable house, made of paper, on wooden framework.

1122 Bain, W., & Co., Lochrin Iron Works, Edinburgh.—Models of fences, suitable for stock farms.

1123 Braby, F., & Co., 360 Euston-road, London.—Galvanised cattle and sheep troughs.

1124 Clayton and Shuttleworth.—Portable maize or Indian-corn sheller.

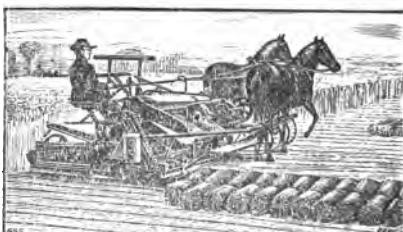
1125 Corbett, T.—Chaff-cutters, maize-shellers.

1126 Evans, J. B., 48 Maitland-park, London.—Wire fences.

1127 Garfitt, T., and Son.—Chaff and hay knives, pulpers, and turnip knives.

1128 Garrett, R., and Sons, Leiston, Suffolk.—Threshing and straw-chopping machines.

1129 Hornsby, R., & Sons Ltd., Grantham England.



Portable Engines, Traction Engine, Thrashing Machines, Australian Winnowers, Sheaf-binding Harvesters, Reapers, Mowers, Fern-cutter, Ploughs, Root-pulper, Turnip-cutter, and Fittings for Binders, Reapers, and Mowers.

1130 Hunt, R., and Co.—Chaff-cutters.

- 1181 Jeffery and Blackstone.—Chaff-cutters.
 1182 Kean, R. and F.—Chaff-cutters.
 1183 Lyndon, W. A., Minerva Works, Birmingham.—Spades, Shovels, and Edge Tools.



- 1184 McFarlane, J. & A., 63 Houldsworth-st., Glasgow.—Patentees and manufacturers of mangles, wringers, washing machines, &c.
 1185 Newbould, S., & Co. Ltd.—Chaff-knives.
 1186 Samuelson & Co. Ltd., Britannia Works, Banbury, England.—Harvesters, Reaping, and Mowing Machines, Chaff-cutters, Lawn Mowers, "Acme" Blowers, &c. Represented by John Blyth & Co., Melbourne.
 1187 Smith, T. W., St. Lawrence Ropery, Newcastle-on-Tyne.—Ensilage press.
 1188 Spencer, W. H., and Co., Hitchin, Hertfordshire.—Circular multiple-lever continuous-action wine press.
 1189 Stainforth, T., and Co.—Chaff-machine knives, turnip-slicer, knives, &c.
 1190 Ward & Payne, Sheffield.—Spades, shovels, hoes; digging, hay, and manure forks; reaping bush hooks, &c.

Class 76.—Conservatories and Horticultural Apparatus.

- 1141 Coalbrookdale Co. Ltd., The, Coalbrookdale.—Garden seats, chairs, and fountains.
 1142 Deverill, J., High-st., Slough, Berkshire.—Patent irrigator, for distributing water in any direction.
 1143 Follows & Bate, Gorton, Manchester.—Lawn mowers.
 1144 Green, F., & Sons Ltd., Surrey Works, Blackfriars-road, London.—Lawn mowers.
 1145 Martineau and Smith, Holloway Head, Birmingham.—Garden engines, syringes, and fountain jets.
 1146 Raglan, W., New Cross, London.—Galvanised-iron potlight, for agricultural and horticultural purposes.
 1147 Sagnor, Cook and Ridal, Paxton Works, Sheffield.—Pruning, budding, and grafting knives, vine-pruning scissors, and horticultural tools.
 1148 Sorby, R., and Sons, Carver-st., Sheffield.—Gardeners', nurserymen's, and horticulturists' tools.
 1149 Sutton and Sons, Royal Seed Establishment, Reading.—Collection of gardeners', nurserymen's, and horticulturists' tools.
 1150 Ward & Payne, Sheffield.—Garden, nursery, and horticultural tools.

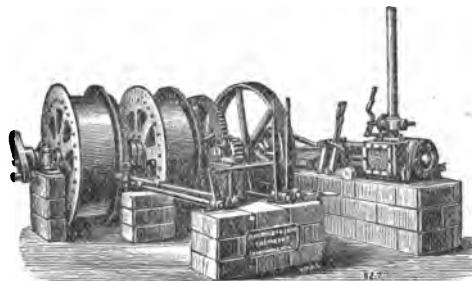
XII.

Mining Industries—Machinery and Products.

- Class 82.—Apparatus and Processes of the Art of Mining and Metallurgy.
- 1151 Askham Bros. and Wilson Ltd., Sheffield.—Complete pulverising plant.
 1152 Bickford, Smith and Co., Tuckingmill, Cornwall.—Patent safety fuses for blasting, and patent igniters with instantaneous fuses.
 1153 British and Foreign Safety Fuse Co., London and Redruth.—Safety fuse for blasting purposes.
 1154 Brunton, W., and Co., London, Cara Brea, and Wrexham.—Safety fuse for blasting.
 1155 Evans, J., & Sons, Culwell Foundry, Wolverhampton.—Pumps and pumping machinery for mining purposes.
 1156 Glenboig Union Fire Clay Co. Ltd., Glenboig, near Coatbridge.—Firebricks, for the construction of furnaces of every description.

- 1157 Globe Mill Co., 17 Union Court, London.—Globe mills, on the dry and wet systems. Agents: Balfour, Elliott & Co. Limited, 5 Queen-st., Melb.
 1158 Harvey and Co. Ltd., Hayle, Cornwall.—Husband's oscillating stamper, used for crushing metalliferous rock to a fine powder.
 1159 Kesson and Campbell, Parthead, Glasgow.—Collections of wire rope, pulleys.
 1160 Loveridge, H., and Co., Merridale Works, Wolverhampton.—Ventilators.
 1161 New Explosive Co. Ltd., 30 St. Swithin's-lane, London.—Guncotton (not explosive), and gun cartridges (dummy); steel plates, &c.
 1162 Nobel's Explosive Co. Ltd., Glasgow.—Nitro-glycerine explosives; samples of dynamite, blasting gelatine, &c.
 1163 Swansea Safety Fuse Co., The, Pipehouse Wharf, Swansea.—Patent safety fuses, for conveying fire to the charge in blasting.

1164 Hornsby, R., & Sons Ltd., Grantham, England.



Winding Engines; Quartz Crusher; No. 2 Ingersoll Duplex Hand-power Rock Drill.

Class 83.—Mining and Metallurgy.

- 1165** Adams, G., and Sons, Mars Iron Works, Wolverhampton.—Samples of bar, hoop, and sheet iron and steel; galvanised sheet iron.
- 1166** Alexander, Ferguson and Co., M'Alpine-st., Glasgow.—Lead and its products, sheet lead, lead pipes, &c.
- 1167** Aluminium Crown Metal Co. Ltd., 34 St. Mary Axe, London.—Process of making aluminium.

- 1172** Baird, William, & Co., 168 West George-st., Glasgow.
PRODUCTS.

PIG IRON :
Brands—Gartsherrie.
Eglinton.

BAR IRON :
Brand—Muirkirk.

GAS COAL :
Muirkirk, Faskine, Mainhill.

1168 Andrew, J. H., and Co., Toledo Steel Works, Sheffield.—Samples of cast, crucible, and other steels.

1169 Anglo-American Tin Stamping Co., Stourport.—Wrought-iron and tinned hollowware, and japanned and enamelled ware.

1170 Askane Brothers and Wilson Ltd., Sheffield.—Samples of steel, steel castings, patent points.

1171 Atkin and Sons, Sheffield Works, Birmingham.—Saws, planes, &c.

BY-PRODUCTS.

Sulphate of Ammonia, Lucigen Oil, Creosote Oil, Neosote, Pitch, Tar, &c.

- 1173** Ball Brothers, Globe Works, Penistone-road, Sheffield, Manufacturers of every description of **ALL STEEL SHEEP SHEARS**.

Trade  Mark.

This Brand of Shears is acknowledged to be
THE BEST NOW IN THE MARKET.

To confirm this, see testimonials, &c., to be had (with any other information) on application to our representative, Mr. H. B. Hardt, at his office in the building. (See Card upon Exhibit).

- 1174** Barrow Haematite Steel Co. Ltd., Barrow-in-Furness.—Steel bars, hoops, &c.

- 1175** Bartleet, W., and Sons, Abbey Mills, Red-ditch.—Needles and sewing-machine needles.

- 1176** Barwell, William, & Son, Hockley Nut, Bolt, and Rivet Works, Birmingham.—Bolts, Nuts, Rivets, Screws, &c., in Iron, Steel, &c. First Order of Merit, Adelaide, 1887.

- 1177** Barwell, J., 40 Great Hampton-st., Birmingham.—Church and school bells and fittings.

- 1178** Bryant and May, Bow, London.—Specimens of tinware decorated and manufactured into tea and coffee canisters, spice-boxes, trays, &c.

- 1179** Bell Bros. Ltd., Middlesborough.—Rock salt
- 1180** Benham and Froud Ltd., Chandos-st., London.—Brass coal scoops, kettles, &c.

- 1181** Blaibey and Marson.—Wrought-iron hinges.

- 1182** Bolekow, Vaughan and Co. Ltd., Middlesborough, Yorkshire.—Sections of Cleveland, basic, and hematite pig iron, rails, girders, &c.

- 1183** Braby, F., and Co. Ltd., Fitzroy Works, Euston-road, London.—Galvanised corrugated sheet iron, galvanised wire netting, &c.

- 1184** Bratt, James & Alfred, Wolverhampton, England.

- Manufacturers of all kinds of Tinned, Japanned, Galvanised, and Enamelled Hollowwares. Suitable for all Markets. For Exhibit, see stand. Agents: Balfour, Elliott & Co. Limited, 5 Queen-st., Melb.

- 1185** Brooks, J., Lock Works, Lye.—Anvils, vices, hammers, picks, &c.

- 1186** Bromley and Fisher, Midland Works, Sheffield.—Samples of steel files and hammers.

- 1187** Brotherton, J., Ltd., Wolverhampton.—Gas, steam, and water wrought-iron tubes and fittings, and gun metal and brass fittings.

MELBOURNE CENTENNIAL INTERNATIONAL EXHIBITION.

1188 Bullivant & Co. Chief Office: 72 Mark-lane, London, E.C. Works: Millwall, London, E.

INVENTORS AND PATENTEES OF

FLEXIBLE STEEL WIRE ROPE.

CONTRACTORS FOR

CABLE ROADWAYS AND WIRE OVERHEAD TRAMWAYS OF EVERY DESCRIPTION.

STEEL WIRE ROPES OF SPECIAL STRENGTH AND MAKE FOR

INCLINES, COLLIERIES, MINES, STREAM PLOUGHS, AND BRIDGE WORK

MANUFACTUREES OF

GALVANISED WIRE NETTING

BULLIVANT'S PATENT TORPEDO NETS AND BOOMS.

Adopted by the English and most of the Foreign Navies.

1189 Burgon and Ball, Malin-bridge, Sheffield.—Edge tools, anvils, shears, &c.

1190 Burys and Co., Regent Works, Sheffield.—Shears, rolled-steel beaten plates, hammers, and picks.

1191 Cartland, J., and Sons, Constitution-hill, Birmingham.—General brassfoundry.

1192 Castle, J. J., 14 Benhill-road, Camberwell, London.—Cabinet brassfoundry.

1193 Chubb and Sons' Lock and Safe Co. Ltd., 118 Queen Victoria-st., London.—Safes of all descriptions.

1194 Cooper, J., & Son, Birmingham.—Augers, chisels, braces and bits, &c.

1195 Consett Iron Co. Ltd., Consett, Durham.—Iron and steel plates and bars.

1196 Cordes, J. J., and Co. Ltd., Dos Works, Newport, Monmouthshire.—Wrought iron, steel, and wire nails.

1197 Cradock, G., and Co., Wakefield.—Samples of wire ropes (*see page 65*).

1198 Crunhall, J., and Sons, St. Anne's Works, Newcastle-on-Tyne.—Exhibit.
Agents: MacBrair, Osborn & Co., Collins-st. W., Melbourne; Sydney, Adelaide, and London.

1199 Danks, J., and Son, Birmingham.—General brassware.

1200 Dewrance, J., and Co.—Engineers' brassware.

1201 Dixon and Corbitt, Gateshead-on-Tyne.—Coils of steel and iron wire rope. Agents: Welch, Perrin & Co., Moray-st., South Melbourne.

1202 Dudley, The Earl of, Dudley.—Samples of hot and cold blast pig iron, finished iron and steel.

1203 Dorman, Long & Co., Middlesborough, England, Makers of

ROLLED-STEEL JOISTS.

to the following sizes:—

16" x 6"	10" x 5"	8" x 4"	5½" x 2"	4" x 3"
15 " 6	10 " 4½	7 " 3½	5 " 5	4 " 1½
14 " 6	9 " 7	6½ " 3½	5 " 4½	3½ " 3
12 " 6	9 " 3½	6 " 5	5 " 3	3½ " 1½
12 " 5	8 " 6	6 " 8	4½ " 1½	3 " 3
10 " 6	8 " 5	6 " 2	4½ " 3	3 " 1½

A large stock of which is always on hand.

Also, all sizes of

Angles,

Channels,

Tees,

Bull Trees,

Bulbs, &c.

in Steel or Iron,

for Engineering,

Shipbuilding,

Architectural,

and Railway Work.

Joists and Columns supplied, either plain or riveted up, as required.

1204 Elliot, G., and Co., London and Cardiff.—Samples of wire ropes.

1205 Elwell, E., Wednesbury.—Hammers, pick-axes, &c.

1206 Fellows, S. J. and E., Vulcan Works, Wolverhampton.—Seamless steel saucepans, kettles, stockpots, and stamped-iron hollowware, &c.

Craddock, George, & Co., Wire Rope Works, Wakefield, England.

Makers of all Descriptions of

ROUND AND FLAT STEEL AND IRON WIRE ROPES,

For Collieries, Mines, Railways, Transmission of Power, Aerial Railways, and Cable Tramways,

We are prepared to deliver Ropes to any part of the World, any weight and size, and up to 25 Tons, without Splice, in either Strands or Rope.

Contractors for ROE AND BEDLINGTON'S AERIAL ROPEWAY, particulars and estimates for which may be had on Application.

WIRE MANUFACTURERS.

BESSEMER, PATENT CRUCIBLE, AND IMPROVED PLOUGH STEEL.

FLEXIBLE GALVANISED STEEL-WIRE HAWSERS.

LANG'S PATENT ROPE (which they introduced and established 1878).

LANG'S PATENT WIRE ROPE

WHEN NEW.



WHEN WORN.



ORDINARY OR OLD CONSTRUCTION

WHEN NEW.



WHEN WORN. SHewing HOW THE WIRES BREAK ON THE CROWN OF THE STRAND.



AWARDS.

First Order of Merit, Adelaide, 1887.

Royal Agricultural Society's Silver Medal, 1888.

Silver Medal, Mining Institute of Scotland, 1886.

Gold and Silver Medals, Calcutta International Exhibition.

Gold and Silver Medals, Antwerp International Exhibition.

- 1207 Francis, Thomas, & Co., Birmingham, England.** Manufacturers of Malleable Nails and Castings, including Bright Nuggets and Hobs, Heel Plates, Boot Repairers, Studs for Bale Ties (Wool and Cotton), Range Hinges, &c., Bung Bushes for Casks in Malleable Iron and Gun Metal. Composition Sheathing Nails and Spikes. H. B. Hardt, Representative.
- 1208 Froggatt, T., 55 Thomas-st., London.**—Files and rasps.
- 1209 Gilpin (W.), sen., and Co. Ltd., Cannock, Staffordshire.**—Augers, bits, axes, hammers, trowels, pickaxes, &c.
- 1210 Glamorgan Coal Co. Ltd., 6 Butecrescent, Cardiff.**—Coke for smelting purposes.
- 1211 Glenboig Union Fire Clay Co. Ltd., Glenboig, near Coatbridge.**—Specimens of fire-clay, raw and manufactured.
- 1212 Goldsworthy, T., and Sons, Britannia Emery Mills, Manchester.**—Emery cloth.
- 1213 Green, A. G., and Co., 97 Old Montague-st., Whitechapel, London.**—Fruit and vegetable strainers, &c.
- 1214 Gregory, J. R., 188 Charlotte-st., Fitzroy-square, London.**—Crystallised and other silver ores.
- 1215 Hadley, F., Birmingham.**—Cut nails in iron and steel, wire nails, &c.
- 1216 Haigh, W. B., and Co., Globe Iron Works, Oldham.**—Exhibit.
Agents: MacBrair, Osborn & Co., Collins-st. W., Melbourne; Sydney, Adelaide, and London.
- 1217 Harcourt, R. and C., and Sons, Mosley-st., Birmingham.**—General brassfoundry.
- 1218 Harper, A., & Sons, Waddam's Pool Works, Dudley.** Brass and Iron Founders.

Established 1824.



Trade Mark.—Registered.

Manufacturers of Fenders, Fire Irons, Fire Brasses, Fire Dogs, Screens, Ash-pans, Hat and Umbrella Stands, Bedsteads, Fire Guards, Safes, Anvils, Vices, Swage Blocks, Stands, Joiners' Screws, Cramps, Jacks, Twyvere's, Smiths' Tools, Boshes, Pulley and Weston's Blocks, Patent Guides. The above collection selected from Stock, not specially prepared for Exhibit.

- 1219 Harrison, G. K., Stourbridge.**—Fire clay, fire bricks, &c.
- 1220 Hawkes, J. & O. C., Globe Works, Birmingham, England.**
Looking-glasses and Overmantels. Patentees and Manufacturers of the New Registered Patent Bevels for edges and surfaces of Plate-glass.
- 1221 Heathcote, H., 17 Cagley-st., Stepney, London.**—Gilding in all its branches, showing the process, &c.
- 1222 Heeley, J., and Sons, 73 Graham-st., Birmingham.**—Steel corkscrews, button-hooks, nutcrackers, whistles, key-rings, &c.
- 1223 Hiller, S. A., and Co., 40 Wellington-road, Stoke Newington, London.**—Turkey oil-stones and slips for sharpening general tools.

1224 Hingley, N., and Sons, Dudley.—Iron chain, cables, anchors, &c.

1225 Hodges, R., 12 Frederick-st., Birmingham.—General brassfoundry.

1226 H. O. Horse Nail Company Ltd., The Cannon-st., London.—The standard patent hammer-pointed horse-shoe nails.

1227 Howarth, J., & Sons, Bath-st., Sheffield.—Files, rasps, and edge tools.

1228 Hulton, Charles, Conybene Works, Conybene-st., Birmingham.—Brass and Steel Fenders, Fire-Brasses and Dogs, Hat and Umbrella Stands, and Marble-top Café Tables.

1229 Hunt and Mitton.—Iron and gun metal.

1230 Hunter, J., 209 King-st., Aberdeen.—Granite monuments of Aberdeen granite of various colours, columns of various granites.

1231 Kenrick, A., and Sons, West Bromwich.—Tinned and enamelled hollowware.

1232 Kent, G., 189 High Holborn, London.—Domestic labour-saving machinery.

1233 Kirby, Beard and Co., 115 Newgate-st., London.—Pins and needles.

1234 Kirkstall Forge Co., Leeds.—Specimens of bar iron and ingot iron.

1235 Knight, J., and Co., Brierly-hill, Staffordshire.—Iron bars, sheets, hoops, and tin plates and sheets.

1236 Knowles, G., 8 Cross-st., London.—Woodenware, comprising chisel, saw, file, and other tool handles.

1237 Leach, Flower and Co., London and Neath.—Plain and decorated tin plates, and stamped and decorated tinware.

1238 Lewis, E., and Sons, Monmore-green, Wolverhampton.—Tubes for gas, steam, and water.

1239 Lewis, S., and Co., Dudley.—Nails, rivets, bolts, nuts, anvils, hammers, &c.

1240 London Metallic Capsule Co. Ltd., Rotherhithe, London.—Metallic capsules.

1241 Lyndon, W. A.—Axes, bills, and matches.

1242 Lysaght, John, Limited, Bristol, Wolverhampton, and London, England. Galvanised Corrugated-iron Manufacturers.

BRANDS:



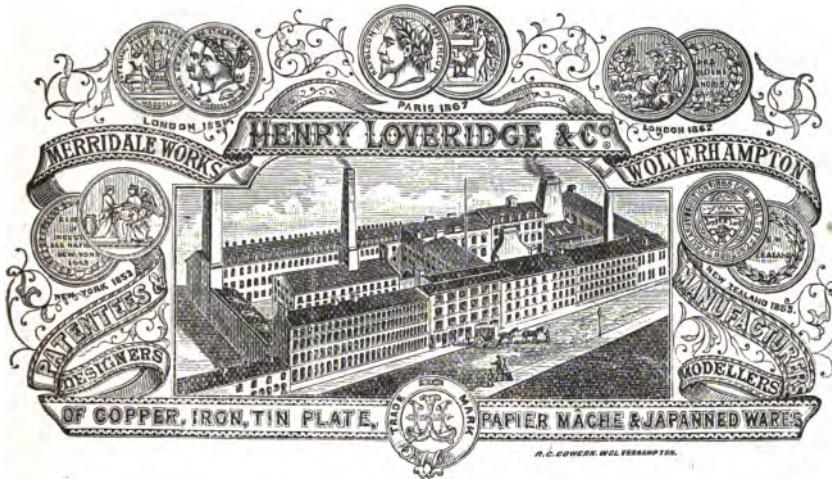
The Exhibit is a building constructed of timber and iron, containing various specimens of our manufactures, including samples showing different stages in the process of manufacturing sheet iron from raw materials.

This Exhibit also shows the various stages in the manufacture of Lysaght's Galvanised Iron. The annexes of the present Exhibition, nearly 25 acres in extent, are covered with Galvanised Iron manufactured by Jno. Lysaght Ltd., Bristol. Lysaght's "Orb" brand Galvanised Iron is most extensively used and favourably known throughout the world. Lysaght Bros. & Co. Ltd.

Telephone 1102. Agents: 12 Queen-st., Melbourne.

AGENTS: Lysaght Brothers & Co. Limited, 12 Queen-street, MELBOURNE; 31 O'Connell-street, SYDNEY; and 227 Queen-street, BRISBANE.

1243 Loveridge, Henry, & Co., Merridale Works, Wolverhampton, Patentees and Manufacturers of Copper, Iron, Tin Plate, Papier-maché, and Japanned Wares.



SPECIALTIES.

Fish Kettles, Saucepans, Stewpans.
Meat Screens, Soup Tureens.
Dish, Plate, and Chop Covers.
Hot-water Dishes and Plates.
Cake, Jelly, and Pudding Moulds.
Hot Plate, Tea, and Bronchitis Kettles.
Cafetières, Coffee and Tea Pots.
Seamless Cooking Vessels.
Culinary and Dairy Utensils.
Lamps, Lanterns, and Candlesticks.
Patent Police Lanterns.
Registered Candlestick and Match-box.
Captain Warren's Patent Cooking Pots, Curry Pans, and Broilers.
General Hutchinson's Patent Economical Cafetières, Coffee Urns, and Matinées.
Seamless Deep Basins, from 4 inches to 36 inches diameter.

Australian Representative : Mr. THOS. K. STEANES, 56 Margaret-st., Sydney ; and Office, British Court.

1244 Moore Brothers, Priory Works, Aston, Birmingham.—Cabinet, Builders', and Stamped Brassfoundry.

The articles in this collection show the ordinary style and finish of the goods supplied by the firm. They include

Brass and Iron Castors, Patent Brass-covered Iron Socket Castors, Patent Machine-made Cupboard and Socket Bolts, Patent Secure Sash Fasteners, Registered Cabinet and Postal Door Handles, Knockers, Bell Pulls, and Door Furniture in general; Brass Hinges, Bolts, Letter-box Plates, Hat and Coat Hooks, Sash and Casement Fasteners, Rack and Axle Pulleys, Maces and Wilkes' Lock Furniture in various qualities, Bedstead Vases, Mounts, &c.

Representative : Mr. J. D. Wragg, 41 Baring-chambers, Market-street, Melbourne.

Fine Paper, Papier-maché, and Iron Tea Trays, Waiters, and Bread Baskets.
Registered Combination Tea Tray.
Coal Scoops, Coal Vases, Hods, &c.
Cash, Deed, Writing, and Despatch Boxes.
Registered Cabin Trunk.
The "Southport" and "Merridale" Steel Trunks.
The Registered Lady's and Gentleman's Steel Travelling Cases.
The Registered Tourist's Bath.
Feet, Sponge, Sitz, and Hip Baths.
Plunge, Shower, and Vapour Baths.
Washing Stands and Toilet Ware.
The Patent Victoria Regia Sponge, Sitz, and Hip Baths and Basins.
Brass Coal Scoops, with Repoussé Panels.
Brass Toilet Sets, Water Jugs, and Ewers.

1245 Macfarlane, Strong, & Co. Ltd., Lothburn Iron Works, Glasgow.—Trophy of Macfarlane's cast-iron pipes, etc.

1246 Mason, S., 58 Dale-st., Birmingham.—Water fittings, coffee urns, etc.

1247 Milner Safe Co., Liverpool and London.—Strong-rooms and safes.

1248 Milward, H., and Sons, Washford Mills, Redditch.—Needles.

1249 Muller, W., and Sons, Monmore-green, Wolverhampton.—Bolts and nuts, screws, washers.

1250 Nettlefold's Limited, London, Birmingham, Smethwick, King's Norton, &c., England.—Screws, nuts, bolts, fencing wire, wire nails, &c.

1251 Newell, R. S., & Co. Ltd., Gateshead-on-Tyne.—Steel and iron wire rope.

1252 Newbould, S., and Co. Ltd., Attercliffe Works, Sheffield.—Hand-saws, chisels, edge tools, and files.

1253 Nichols, J., and Son., Cheapside Wire Works, Birmingham.—Wire nails and wire goods of every description. Representative: T. K. Steane, 56 Margaret-st., Sydney; and Office, British Court.

1254 Nicholson, B., and Sons., Bramall-lane, Sheffield.—Samples of various kinds of steel used by Victorian miners; hammers, picks, files, &c.

1255 Osborn, S., and Co., Clyde Steel and Iron Works, Sheffield.—Steel tools of various kinds.

Agents: MacBrair, Osborn & Co., Collins-st. W., Melbourne; Sydney, Adelaide, and London.

1256 Palmer's Shipbuilding and Iron Co.—Specimens of ore, coke, pig iron, finished iron and steel.

1257 Parkes, A. and F.—Edge tools.

1258 Periam, H. W., Floodgate-street Works, Birmingham.—Bolts and nuts, screws, rivets, washers, and nails.

1259 Perkins, Son, and Barratt., The Forge, Bradford.—Exhibit.

Agents: MacBrair, Osborn & Co., Collins-st. W., Melbourne; Sydney, Adelaide, and London.

1260 Phillips and Sons., Birmingham.—Fire-proof safes.

1261 Pike, W. H., 107 Walton-st., London.—Needles.

1262 Patent Nut and Bolt Company Ltd., London Works, near Birmingham; Stour Valley Works, West Bromwich; Cwm Bran Works (Blast Furnaces and Collieries), Newport, Mon.



Bar Iron, Railway Fastenings, including Fish and Sole Plates, Fish and Fang Bolts, Spikes and Rail Screws.

Every description of Bolts and Nuts, Rivets, Set Screws, Coach Screws, and Washers from Steel, Iron, Copper, and Brass—black, bright, and galvanised. Also Telegraphic Ironwork.

1263 Quirk, Barton and Co., 61 Gracechurch-st., London.—Patent tin-lined lead pipe and sheet lead.

1264 Rylands Brothers Limited, Warrington. Wire Manufacturers.



Trade Mark.

A.D. 1805.

The Wire Manufacturers of this Company, as now exhibited, include:—

Best Refined Telegraph Wire, in long lengths, without weld or joint.

Refined Telephone Wire, suited for all electrical purposes.

Best Annealed Drawn Fencing Wire, of extra quality.

Best Oval and Round Steel Fencing Wire, of great strength.

Best Galvanised Drawn Fencing Wire.

Bright and Galvanised Wire, for manufacturing purposes.

Iron and Steel Wire of all qualities, for Rope Making.

Extra fine Wires for Card Making and Weaving.

Steel Spring Wire for every description of Springs—Plain, Coppered, or Tinned.

Bottling Wire, Tinned, Galvanised, or Black.

Galvanised Wire Netting in every size, mesh, and gauge of Wire, any width, as used in Great Britain and the Colonies for Poultry Fences, Sheep Runs, Rabbit and Kangaroo Fences.

Best Wire Ropes, of selected quality and superior manufacture, for Ship's Rigging, Ropes, Flexible Steel Cables and Hawser, Colliery Pit Ropes in Iron and Steel, Flat or Round Ropes for Hoists, Inclines, Driving Machinery, and other work, Galvanised or Plain.

Galvanised Strand in every size, for Railway Signals and Fencing.

Galvanised Communication Cord, Sash Cord, Picture Cord, of every kind.

Lightning Conductors in Galvanised Iron and Copper.

Patent Barbed Steel Fencing Wire, Spelter, &c.

The Works produce about 25,000 tons of Wire manufactured annually.

Messrs. Rylands Brothers, the oldest firm in the trade in Great Britain, were formed into a Limited Company about twenty years ago, with a large capital and an influential body of directors. The Company are Contractors to the Admiralty and Postal Department of the British Government, English, Scotch, and Irish Railways, India Office, India State Railways, and Postal Department, Great Indian Peninsula Railway, Bengal Central Railway, Madras Railway, Bombay, Baroda and Central India Railway, the Colonial Governments of Mauritius, Queensland, New South Wales, and others, as well as the principal Railways and Telegraph Systems in Canada, South America, Africa, United States of America, and nearly all European Countries.

1265 Sadler, J., Spring-hill, Birmingham.—Wrought-iron hinges.

1266 Sanders, T., Ladywad, Birmingham.—Brassfoundry. Agents: Welch, Perrin & Co., Moray-street, South Melbourne.

1267 Scott, F. W., Atlas Steel Wire Rope Works, Reddish, near Manchester.—Steel mining ropes of every description.

1268 Shaw, J., Soho-st., Sheffield.—Iron and steel ropes.

- 1269 **Shott's Iron Co., The**, Shotts, Scotland.—Samples of pig iron and iron stone.
- 1270 **Showell, E., and Sons**, Lower Loveday-st., Birmingham.—Brass fenders, kerbs, lock plates, and general cabinet fittings.
- 1271 **Simpson, J., & Sons**, Acorn Works, Parlaston, Staffordshire.—Bolts and nuts of all kinds.
- 1272 **Skidmore, H. P.**, Atlas Tube Works, Netherton, near Dudley.—Wrought-iron tubes and fittings.
- 1273 **Skidmore, T., and Son**, Wolverhampton.—Wrought iron and steel fire and burglar proof safes.
- 1274 **Smith, T., and Sons**, 21 Whittall-st., Birmingham.—Hammers and tools for miners, stone masons, and platelayers.
- 1275 **Smith, T. W.**, St. Lawrence Ropery, Newcastle-on-Tyne.—Wire ropes of all descriptions.
- 1276 **Sorby, R., and Sons**, Carver-st., Sheffield.—Hardware, edge tools, ironmongery, and saws.
- 1277 **Spencer, J., & Sons**, Newburn Steel Works, Newcastle-on-Tyne.—Castings, anchors, hooks, files, tool steel, etc.
- 1278 **Steel Company of Scotland, The**, 28 Royal Exchange-square, Glasgow.—Trophy consisting of plates, bars, rails, angles, castings, forgings.
- 1279 **Stephens, J., and Son**, Ashfield, near Falmouth.—Iron and steel wire ropes.
- 1280 **Syer, T. J., & Co.**, 21 Finsbury-st., London.—General carpenters' and joinery tools.
- 1281 **Sybry, Searle & Co.**, Sheffield.—Mining, tool, shear, blister, spring, and self-hardening steel; picks, hammers, files, &c.
- 1282 **The Monk Bridge Iron and Steel Co. Limited**, Leeds, Yorkshire (see pages 70, 71, and 72).
- 1283 **The Low Moor Co.**, Low Moor Iron Works, near Bradford, Yorkshire, England.

The Sole Makers of Low Moor Iron Boiler Plates, Bars, Cranks, Axles, Tyres, Rivets, Chains, Casting, &c.

TRADE MARK
LOWMOOR
REGISTERED.

Exhibit includes Fractures of PIE, REFINED, PUDDLED, and FINISHED IRON, Locomotive Engine and Carriage Axles, Domes, Valve Seats, &c., &c. Railway Wheel Tyres. Marine Boiler-front Hanged Plates of various descriptions. Expansion Rings, Rivets, &c. Tests of Finished Iron.

- 1284 **The "Cannon" Holloware Co. Ltd.**, Deepfields, near Bilston, Staffordshire, England, from Founders, Enamellers, and Patentees.

Bright or Japanned Cover
for Tinned Ware.



Burnished Cover for
Enamelled Ware.

SPECIALTIES.

Patent "Duplex" Lids.
Patent Socket, Capped Handles, Steel Seamless Covers.
Patent "Rivetless" Axle Pulleys.
Patent Cast Enamelled Iron "Strata" Filters.
Patent Wrought Detachable Legs for Negro Pots.

Pure Tinned Cast Holloware.
Pure Vitrified Enamelled Holloware.
"CANNON" Cast Hinges, Nos. 200, 333, 564.
Jaw Boxes, Coffee Mills, Sad Irons, and Castings of every description.

BEST YORKSHIRE IRON. CAST STEEL. STEEL FORGINGS.

70

MELBOURNE CENTENNIAL INTERNATIONAL EXHIBITION.

The Monk Bridge Iron and Steel Co. Limited, Leeds, Yorkshire.

TELEGRAPHIC ADDRESS: "AIREDALE, LONDON."

*Chairman: SIR JAMES KITSON, BART.
Directors: MR. E. A. JEFFREYS, MR. F. J. KITSON.*

THE MONK BRIDGE IRON WORKS were founded in 1851, and shortly after their erection passed into the possession of the late JAMES KITSON, Esq., who was the founder of the eminent Firm of Locomotive Engine Builders, Messrs. KITSON & CO., *Airedale Foundry*, half a century ago. These works were directed by Mr. KITSON, in partnership with his Sons, for many years.

After the decease of Mr. F. W. KITSON, the Engineer, and also of Mr. Kitson, his Father, the management devolved upon Sir JAMES KITSON, by whom, as Chairman, with Mr. E. A. JEFFREYS and Mr. F. J. KITSON, as members of the Board of Directors, the business is still actively carried on.

The development of the operations of the Firm, and its extension of plant for the production of *Steel*, led to the reconstruction of the Firm, and its formation into *Limited Company*, which was registered on the 1st January, 1886, as THE MONK BRIDGE IRON AND STEEL CO. LIMITED. The constitution of the Company is based on conditions which ensure the initiative, and the responsibility of personal management by the former heads of the old concern, and there has been no change in the technical direction, the heads of departments employed by the old Firm being continued in their positions with the reconstituted Company.

The Company manufacture the following articles:—

Best Yorkshire Iron.

BOILER PLATES.

AXLES, CRANK AND STRAIGHT, FOR LOCOMOTIVES, CARRIAGES, AND WAGGONS.

SOLID ROLLED ANGLE-IRON RINGS FOR LOCOMOTIVE BOILERS.

ANGLE AND TEE IRON.

BAR IRON, ROUND, SQUARE, AND FLAT.

RIVET IRON.

SPECIAL IRON FOR FIRE-BOX STAYS.

DOUBLE-WORKED CHAIN IRON, FOR ENGINE, CARRIAGE, AND WAGON COUPLINGS.

PISTON RODS, SLIDE BARS, OUTSIDE CRANKS, FORGINGS OF ALL DESCRIPTIONS.

ENGINE FRAME PLATES.

Cast Steel.

The manufacture of SPECIAL CAST STEEL has now become the most important branch of industry carried on at these works, and is constantly receiving extensive developments. The best descriptions of Steel for Engine purposes are produced by different processes which are found most suitable for the manufacture of the highest qualities for these uses. It has not been found advantageous for these purposes to establish the Bessemer process at these Works.

The Company can now manufacture in *Steel* all the articles which they have been accustomed to supply in *Wrought Iron*, the greater portion of their production of Steel being specially required in the form of—

BOILER PLATES.

,, PLANGED FOR LOCOMOTIVE AND MARINE ENGINES.

ANGLES, TEES, BARS, ROUND, SQUARE, OR FLAT.

FRAME PLATES.

TYRES FOR ENGINES, CARRIAGES, AND WAGGONS.

CRANK AXLES FOR ENGINES, WITH ROUND, OVAL, OR FLAT WEBS.

STRAIGHT AXLES FOR ENGINES, CARRIAGES, AND WAGGONS.

Steel Forgings.

MARINE ENGINE SCREW AND CRANKED SHAFTS.

FORGINGS OF ALL DESCRIPTIONS.

One of the latest developments of the manufacture of the Company is the production of *Cast Steel Wheel Centres*, and Steel Castings of large dimensions.

Cast Steel Wheel Centres.

LOCOMOTIVE TENDER, CARRIAGE, OR WAGON UP TO 8 FEET DIAMETER.

Steel Castings or Forgings.

PISTON RODS, CROSSEHEADS, SLIDE BARS, HORN-BLOCKS.

EXPANSION STAYS, AND STEEL CASTINGS OF ALL DESCRIPTIONS.

On the opposite side are sketches showing a few of the Types of Manufactures of this Company.

CAST-STEEL WHEEL CENTRES. STEEL CASTINGS OR FORGINGS.

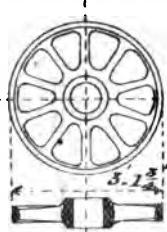
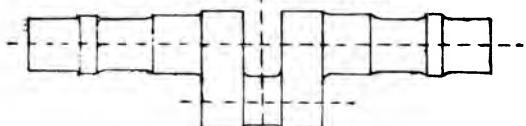
BEST YORKSHIRE IRON. CAST STEEL. STEEL FORGINGS.

BRITISH EXHIBITS.

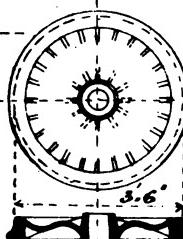
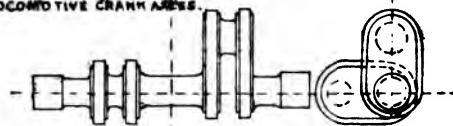
71

THE MONK BRIDGE IRON AND STEEL COMPANY.

MARINE ENGINE CRANK.

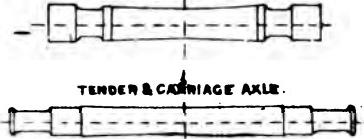
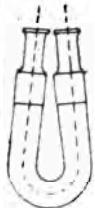


LOCOMOTIVE CRANK ARMS.

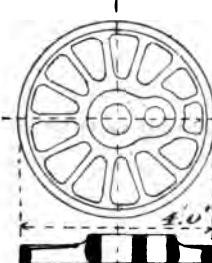


THE MONK BRIDGE IRON & STEEL CO LTD, LEEDS, ENGLAND

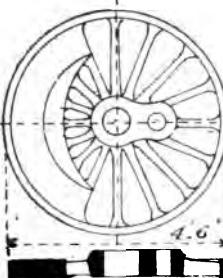
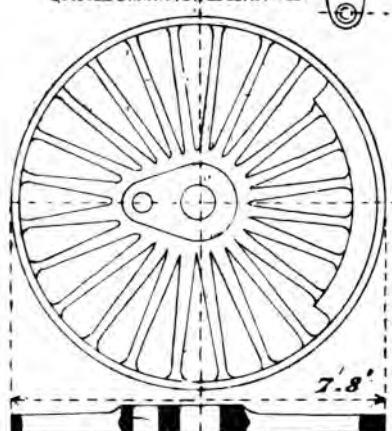
ENGINE AXLE.



TENDER & CARRIAGE AXLE.



OUTSIDE CRANK FOR LOCOMOTIVES.



CAST STEEL WHEELS FROM 7 FT 8 IN. DIAM.

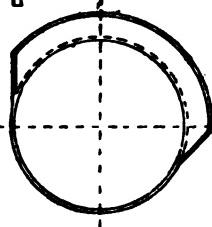
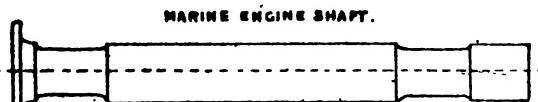
CAST-STEEL WHEEL CENTRES. STEEL CASTINGS OR FORGINGS.

Digitized by Google

BEST YORKSHIRE IRON. CAST STEEL. STEEL FORGINGS.

72

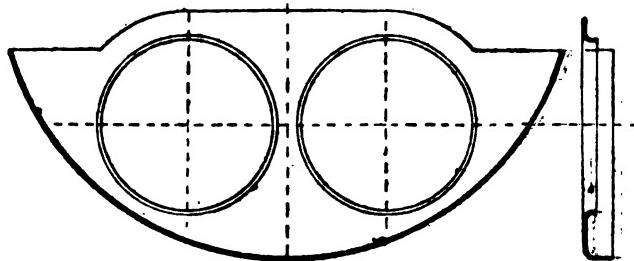
MELBOURNE CENTENNIAL INTERNATIONAL EXHIBITION.



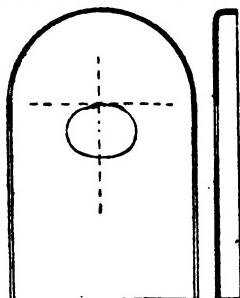
MARINE BOILER FURNACE

THE MONK BRIDGE IRON & STEEL CO LTD LEEDS, ENGLAND.

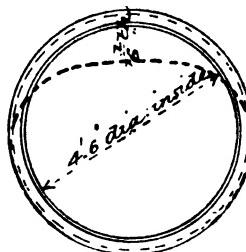
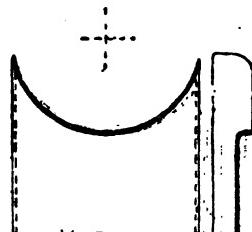
MARINE BOILER END PLATE



LOCOMOTIVE BOILER OUTSIDE FIRE BOX PLATE



LOCOMOTIVE BOILER THROAT PLATE



STEEL TYRE AFTER TIPPING

CAST-STEEL WHEEL CENTRES. STEEL CASTINGS OR FORGINGS.

- 1285 Thornton, R., South-parade, Cleckheaton, Yorkshire.—Tinned iron-wire staples.
- 1286 Trotter, Haines and Corbett, Stourbridge.—Fire-bricks and fire-clay.
- 1287 Turner, S. F., Wellington Works, Dudley.—Fire and thief proof safes, galvanised-iron buckets and tube.
- 1288 Tyzack, W., Sons and Turner.—Hammers, chisels, and steel.
- 1289 United Horse-shoe and Nail Co., The, 115 Cannon-st., London.—Horse-shoes and nails.
- 1290 Walker, Joseph, Parker & Co., Chester, England; and at London, Newcastle-on-Tyne, Liverpool, and Bazil, North Wales, Lead Smelters, Merchants, and Manufacturers.—White, Red, Sheet, and Pig Lead; Shot, Letharge, Orange Lead; Lead and Block-tin Pipe; Lead Wire; Calm and Window Lead, &c.
- 1291 Walker and Worsey, 14 Edmund-st., Birmingham.—Iron safes.
- 1292 Ward and Payne, Sheffield.—Edge tools, spades, hammers, sheep shears, &c. Representative: T. K. Steanes, 56 Margaret-st., Sydney; and Office, British Court.
- 1293 Wild, J. and F. C., Sheffield.—Steel of various kinds. Representative: T. K. Steanes, 56 Margaret-st., Sydney; and Office, British Court.
- 1294 Wilkinson, W., and Sons, Spring Works, Sheffield.—Sheep shears, garden shears, &c.
- 1295 Williams Bros. and Co., Pershore-st., Birmingham.—Metal tubes of all kinds, and general brassfoundry. Representative: T. K. Steanes, 56 Margaret-st., Sydney; and Office, British Court.
- 1296 Wilson, C. W. M., 153 Fenchurch-st., London.—“Hercules” broad wire nails.
- 1297 Wilson, J., West-st., Sheffield.—Edge tools, &c.
- 1298 Yates, J., 39 and 40 Colehill-st., Birmingham.—Brassfoundry, &c.

LANCASHIRE ANNEXE.

Industrial Section.

- 1 Adams & Co., Manchester.—Cotton waste, etc.
- 2 Armytage, Sir E., & Sons, Manchester.—Cotton fabrics.
- 3 Barlow & Jones, Manchester.—Cotton goods.
- 4 Birckacre Co. Ltd., Manchester.—Printed piece goods.
- 5 Bond & Riley, Manchester.—Tapestry, etc. Agents: Richard Allen & Co., 87½ Flinders-lane East, Melbourne.
- 6 Braidwood, P. M., Birkenhead.—Framed designs.
- 7 Briggs & Co., Manchester.—Embroidering silks.
- 8 Burgess, Ledward & Co., Manchester.—Coloured cotton goods.
- 9 Carr, J., & Sons, Manchester.—Tapes, etc.
- 10 Christy, W. M., & Sons, Manchester.—Towels, etc.
- 11 Evans, J., Liverpool.—Hansom cab.
- 12 Foster, J., Preston.—Knitting machines.
- 13 Frictionless Engine Packing Co., Manchester.—Engine packing.
- 14 Gibson, S., Leek.—Silks.
- 15 Grimwaldt, P. M., Manchester and St. Petersburg.—Sables.
- 16 Hall, M'Kerrow & Co., Pendleton.—Cotton shirtings.
- 17 Haynes, G., & Co., Stockport.—Lamp wicks.
- 18 Harrison Knitting Machine Co., Manchester.—Knitting machine.
- 19 Haslam, J., & Co., Manchester.—Exhibit.
- 20 Hayworth & Co., Manchester.—Blinds, etc.
- 21 Helme, J., & Co., Lancaster.—Oil baizes.
- 22 Higham, J., Manchester.—Musical instruments.
- 23 Horrocks, Crewdson & Co., London.—Longcloths, etc.
- 24 Hoyle, J., & Sons, Manchester.—Cotton goods.
- 25 Hoyle, T., & Sons, Manchester.—Printed calicoes.
- 26 Humby, J. C., Liverpool.—Harness-makers' sewing machines.
- 27 Hunter, J., Manchester.—Signboards, etc.
- 28 Jacobson, N., Manchester.—Hats and Caps.
- 29 Johnson, R., Clapham and Morris, Manchester.—Patent fire-proof wire lathing cottage.
- 30 Lee, D., & Co., Manchester.—Cretonnes.
- 31 Lee & Hardgrevies, Manchester.—Turkish towels, etc.
- 32 Lee Spinning Co., Manchester.—Sewing cottons.
- 33 Louis, A., Manchester.—“Louis” velveteens.
- 34 Morgan, J., & Sons, Manchester.—Lamp wicks.
- 35 Naylor, F., & Co., Manchester.—Cotton goods.
- 36 Nicholson, H., Rochdale.—Cricket balls.
- 37 Platt Brothers and Co., Oldham.—Worsted yarns.
- 38 Plews, A. S., Manchester.—Fancy cotton goods.
- 39 Potter, C. & J. G., Darwen.—Paperhangings.
- 40 Potter, E., & Co., Manchester.—Printed calicoes.
- 41 Rawcliff, J. B., & Co., Glossop.—Sanitary mattresses.
- 42 Roberts, J. F. & H., Manchester.—Dyed twills.
- 43 Rosendale Printing Co., Manchester.—Cotton and cretonnes.
- 44 Royle, J., Manchester.—Glass goods.
- 45 Rylands & Sons Ltd., Manchester.—Sheetings, etc.
- 46 Shannon, Fill & Co., Manchester.—Office furniture.
- 47 Sherring, E., Manchester.—Safety lamps.
- 48 Simpson and Godlee, Manchester.—Dyed cottons. Agents: Harry Dix and Co., 65 William-st., Melbourne.
- 49 Swainson, Borley & Co., Manchester.—Longcloths, etc.
- 50 Titancrete Co., Manchester.—Fire-proof material.
- 51 Tootal, Broadhurst, Lee & Co., Manchester.—Muslins.
- 52 Watson, C., & Co., Leek.—Sewing silks.

52a Wardle, T., F.C.S., Art Printer, Leek, Staffordshire.—Art fabrics.

Duplicates of goods exhibited may be had at The Kalizoi, Collins-st. East, Melbourne.

Sole agents for Australasia; Saml. Buckley and Co., Birmingham, and Clarke Buildings, Bourke-st. West; also, agents for Croft and Assinder's Artistic Brassfoundry, Stevens and Williams' Decorative Glass, and Royal Worcester Porcelain Co.

53 Whittles & Co., Manchester.—Drapery.

54 Windover & Co., Manchester.—Carriages.

55 Wilson, J., junr., Manchester.—Gymnasium.

56 Worrall, J. T. & J. M., Salford.—Velvets.

Machinery in Motion.

57 Bratt & Hinchcliffe, Manchester.—Soda-water machinery.

58 Crossley Bros., Manchester.—Gas engines.

59 Engel, H., Liverpool.—Embroidery machines.

60 Foster, J., & Sons, Preston.—Printing machines.

61 Gelder, Von Apsman & Co., Liverpool.—Wheat-cleaning machinery.

62 Haig, W. B., & Co., Oldham.—Wood-working machines.

63 Hindle, Norton & Co., Oldham.—Engines.

64 Hulse & Co., Salford.—Repairing machine tools.

65 Hurd, F., & Co., Liverpool.—Patent machines.

66 Massey, B. & S., Manchester.—Machines for metals.

67 Mansfield, E., & Sons, Manchester.—Oil gas producer.

68 Pickles, J., & Son, Manchester.—Moulding machine.

69 Pringle & Co., Leigh.—Vertical engine.

70 Richmond & Chandler, Manchester.—Chaffcutters.

71 Robinson, T., & Son, Rochdale.—Engine.

72 Simon, H., Manchester.—Roller mills.

73 Vicars, T. & T., Liverpool.—Biscuit-making machinery.

74 White, R. P., Manchester.—Wood-working machinery.

Natural Products.

75 Faulder & Co., Stockport.—Preserved fruits.

Machinery (Silent).

76 Anderton, A., & Sons, Accrington.—Multi-tubular boiler.

77 Barrow Hematite Steele Co., Barrow-in-Furness.—Steel rails.

78 Braddock, J. & J., Oldham.—Gas-measuring apparatus.

79 Chatwood, S., Bolton.—Safes.

80 Climax Air Propeller Co., Manchester.—Air propeller.

81 Follows & Bate, Manchester.—Lawn mowers.

82 Galloway, J., Bolton.—Aerated water appliances.

83 Galloway, J., & Sons, Manchester.—Furnaces, tubes, etc.

84 Hind & Lund, Preston.—Roller mill.

85 Johnson, R., & Nephew, Manchester.—Fencing wire, etc.

86 Lancashire Patent Belting and Hose Co., Manchester.—Hair belting.

87 Luke & Spencer, Manchester.—Emery discs.

88 Lynde, F. C., Manchester.—Automatic machines.

89 Marsh, T., & Co., Oldham.—Gas burners.

90 Mills, J. (Executors of), Stockport.—Pins.

91 Milner's Safe Co. Ltd., Liverpool.—Safes.

92 Moorhouse, S., & Co., Stalybridge.—Asbestos valves, etc.

93 Noiseless Tyre Co., Manchester.—Tyres.

94 Potter, J. L., Manchester.—Patent oil lamp.

95 Pooley, H., & Son, Liverpool.—Weighing machines.

96 Rose, E., Bolton.—Stereoscopic slides.

97 Royle, John J., Manchester.—Domestic patents.

98 Rylands Bros. Ltd., Warrington.—Wire ropes, etc.

99 Slack & Brownlow, Manchester.—Filters.

100 Stott, J., & Co., Oldham.—Gas governor.

101 Taylor & Wilson, Accrington.—Washing machines.

102 Unbreakable Pulley Co., Manchester.—Pulley.

103 Whitehead, J., & Co., Preston.—Drainpipe machinery.

104 Whitecross Co. Ltd., Warrington.—Wire ropes, etc.

Chemical Section.

105 Anglo-American Boiler Solvent Co. Runcorn.—Boiler solvent.

106 Broadhurst & Co., Manchester.—India-rubber.

107 Brunner, Mond, & Co., Northwick.—Carbonate of soda.

108 Evans, Sons & Co., Liverpool.—Lime-juice essence.

109 Gaskell, Deacon & Co., Widnes.—Caustic soda.

110 Geddes, W., & Sons, Oldham.—Malt extracts.

111 Goldsworthy, T., & Son, Manchester.—Emery cloths, etc.

112 Greenbank Alkali Co., St. Helens.—Potash, soda, etc.

113 Gulliver, S., & Co., Liverpool.—Mineral waters.

114 Machen & Co., Liverpool.—Ales and stout.

115 Macintosh, C., & Co., Manchester.—India-rubber.

116 Mandelberg & Co., Manchester.—Water-proof clothing.

117 Moseley, D., & Sons, Manchester.—India-rubber manufactures.

118 Mottershead & Co., Manchester.—Food for infants.

119 Muspratt, J., & Son, Liverpool.—Acids, etc.

120 McDougall Bros., Manchester.—Disinfectants.

121 Powell & Scholefield, Liverpool.—Brewers special materials.

122 Union Alkali Co., Manchester.—Refined chemical products.

123 Widnes Alkali Works, Widnes.—Chemical products.

124 Woodward, M., & Sons, Liverpool.—General confectionery.

Handicrafts.

125 Turtles, Bates & Co., Manchester.—Glass-ware.

Photographic.

126 Ascroft, C. E., Sydney.—Photographs and lithographs.

INTRODUCTION TO THE CANADIAN COURT.

The variety of exhibits from Canada, although restricted in number, demonstrates at once the vast extent of her agricultural resources and the unmistakably high position taken by the Dominion as a manufacturing community. Her population now approaches 5,000,000, against 3,687,924 in 1871, and are distinguished for their success in farming and pastoral enterprise, and for the progress they have made in great mechanical industries. The forges and foundries established in her eastern provinces bear witness to the skill, wealth, and labour by which she is enabled to supply the largest portion of her engineering wants in the way of agricultural implements and locomotives, and provide luxuries for her people. Her reputation in the manufacture of pianos is already great, and almost every year reveals some new industry founded within her borders, which renders her less dependent upon the outside world. The country with which she transacts the largest amount of business in exports and imports is the United States, after which comes the United Kingdom. The countries to which her business relations extend include China, Japan, Germany, France, the West Indies, and South America. But Australia has an interest in Canada beyond the fact that she is a rapidly rising power, and that both are under the rule of the same sovereign. There is ground for the anticipation that the Dominion will, ere long, be drawn into closer commercial relations with these southern colonies. It is expected that an ocean cable will, sooner or later, connect Australians with the great telegraph system of the Dominion, and thus afford us an alternative medium of telegraphic communication with the United Kingdom. There is also a fair prospect of a line of steamers being established between the terminus of the Canadian Pacific railway in the province of British Columbia and Sydney.

SIZE, CLIMATE, AND PRODUCTION OF THE SOIL.—In size, Canada as nearly as possible equals the United States; including the territory of Alaska, the Union and the Dominion being respectively 3,500,000 square miles in extent, which is also approximately the area of Europe. The southern frontier of Manitoba is just above the latitude of Paris, while the southern point of the province of Ontario is as far south as the latitude of Rome. This vast territory extends from the Atlantic to the Pacific westward, and from the southern latitude above-stated to the Arctic Circle. Very large portions of this expanse of territory are cultivatable, and those regions which are unsuited for the plough, as a rule abound in mineral or metallic wealth. For the growth of grasses, cereals, and other productions of temperate climates, it possesses an extent of land unsurpassed by any country in the world. Its forests, which cover many thousands of square miles, are the finest on the American continent, and its prairie land, which is equally abundant, is singularly fertile. Contrary to the common prejudice entertained by Europeans personally unacquainted with the Dominion, in reference to the climate, which was once described by a French king as "after all only a few acres of snow," the fact is that the range of temperature varies from the Arctic to that of almost the most southern of Temperate zones. The climates of the settled parts of the Dominion, and of the lands fit for settlement, are agreeable, healthy, and favourable to the highest development of human energy. The temperature of Manitoba in summer is lower than that of Montreal. The productions of Canada attest the accuracy of the above estimate of its climate. At the agricultural shows held in the country, wheat, barley, oats, and other cereals are always well represented; maize is found in excellent condition; root and vegetable crops are fine; field pumpkins often measure 4 feet 10 inches in circumference, and squashes 8 feet 3 inches, and sometimes those grown in the open air weigh as much as 350 lbs. Potatoes, citrons, melons, marrows, and tomatoes are exceptionally large. Soil sown with grain yields from 15 to 40 bushels to the acre. Indian corn grows to the height of 18 to 20 feet, yielding 37 tons to the acre as food for cattle; 600 grains have been counted on an ear, coming to maturity, 18 inches long. Usually there are two ears, sometimes three on one stem; but not, of course, all so large as the one described.

Upwards of one hundred varieties of apples may at any time be seen at horticultural exhibitions. Among those suitable for cooking purposes are the Cayuga, the Alexander, the Red Astrachan snow apples—so named from the whiteness of the pulp—the Gravenstein Baldwin, the Spitzenberg, and Red Streak or 20-oz. pippin, an imposing fruit, measuring sometimes over 15 inches. Even in California, the orchard of the United States, the Canadian apple is the standard of excellence. Vast quantities are exported to England under another name, their nationality being lost. The grape thrives well. Raspberries, strawberries, blackberries, cranberries, cherries, fruits, currants, plums, apples, &c., grow wild, and orchards flourish everywhere.

An agricultural return, obtained by the Bureau of Industries for the province, on Ontario gives the production of field-crops as follows:—Fall wheat, 20·4 bushels per acre; spring wheat, 16·5; barley, 26·5; oats, 36·2; rye, 16·3; peas, 22·8; corn, in ear, 69; buckwheat, 23·7; beans, 22·9; potatoes, 114·3; mangolds, 483·6; carrots, 375·4; turnips, 475·7 bushels; and hay and clover, 1·35 tons per acre. Hemp, tobacco, and sugar are profitable crops. For

wheat, barley, rye, and potatoes it is claimed that the soil of Nova Scotia is still more productive. Some remarkable results of agricultural skill and labour are on record concerning Manitoba and the northern territories, where cereal culture is followed on a gigantic scale. Of the total area of Canada in 1881, 45,358,141 acres (about a fiftieth of the whole) was occupied. In 1886 294,960 acres were disposed of as homesteads—146,480 under the Pre-emption Act, and 133,701 acres were sold—575,141 acres altogether.

STOCK BREEDING.—The progress of Canada as a stock-breeding country has been remarkable. It is barely twenty years since the first herd of English thoroughbred shorthorns was imported, and previous to that time but little attention had been paid to the subject of raising stock. It was the opinion of many at that time that stock-breeding could never be successfully carried on in the Dominion. That view has proved erroneous. It is now stated with confidence that the collection of cattle at the great stock-breeding farms of Canada is among the most valuable in the world, being made up of the very best blood of "the bovine aristocracy of England." It is but recently that there were no pure herds in the country, except a small species of cow which prevails in the French part of Lower Canada, which was brought chiefly from Bretagne, and possesses the milking characteristics of the Jerseys and the Alderneys. To-day, however, there are in Canada many herds of the best English breed, of pure and unbroken descent, extending back many generations. It appears that the famous shorthorns not only thrive in Canada, but actually improve. The offspring, in not a few cases, are carried back to the parent country and sold at high prices. Doubtless one drawback to enthusiasm in extensive cattle-breeding has been the cost of shelter and feed during winters unknown in Australia.

VINEYARDS.—There are vineyards of 50 to 60 acres in Ontario, as well as fruit orchards of much larger dimensions. Wine of approved quality is now manufactured from the grapes; and in the county of Essex, on the shores of Lake Erie, the vine is very largely grown for the purpose of wine-making, by French viticulturists, according to French methods, and with notable success. These men declare that the conditions for growing the vine are more favourable in Essex, Ontario, than in the east of France, while the wine is of a superior quality.

DAIRY FARMING.—In the dairy-farming industry of Canada the tendency is towards improvement and economy of labour. Into the older provinces the factory system has latterly been introduced. There are factories also for the manufacture of cheese, and creameries for the manufacture of high-class butter, and the results achieved are infinitely superior to those of the old system of manual labour. It is now admitted by experts that much of what is sold in London as the best quality of "American" cheese is made in Canada. So admirably are Canadian Cheddar and Stilton found to suit the English palate, that these are in great demand in the United Kingdom. The value of Canadian cheese in the fiscal year 1886 exported was £1,780,428.

FOREST PRODUCTS.—One of the most important sources of the wealth of Canada is her forest products, which find their way to the United States, the United Kingdom, and the Australian colonies. The Canadian sawmills are the largest and best appointed in the world. A giant pine log, taken out of the water by an automatic process, is placed in position under the saws and reduced to inch boards in a few seconds. The forests of Canada are rich in a great variety of noble trees for building purposes, furniture, and fuel. The chief species are maple (hard and soft), elm, hickory, ironwood, pine, spruce, cedar, hemlock, walnut, oak, butternut, basswood, poplar, chestnut, rowan, willow (black and white), birch, fir, balsam, yew, arbutus, elder, dogwood, and cottonwood. The Douglas pine yields spars from 90 to 100 feet in length. In Nova Scotia the sap of the maple is manufactured into sugar and syrup.

MINING.—Within the last few years the attention of capitalists, native and foreign, has been specially directed to Canada as a field for mining enterprise in metals and minerals. Numerous seams of bituminous coal of great thickness have been discovered and worked in Nova Scotia. In one instance there is good coal 38 feet thick. The amount of that mineral produced, which has greatly increased of late, reached in 1885 an output of 1,352,205 tons. Coal is worked in New Brunswick, but at present the seams in that province are thin. Beyond the province of Manitoba, stretching to the base of the Rocky Mountains on the west, and from the southern border of Canada nearly to the Arctic Ocean, is a country of untold carboniferous wealth. The coal deposits traceable in the north-west are pronounced "absolutely inexhaustible." The coal-bearing area between the 56th and 49th parallels of latitude is estimated at 65,000 square miles, and the quantity of fuel known to underlie each square mile of surface, in some portions of this area which have been carefully explored, is from 4,500,000 to 9,000,000 tons. The mineral varies in quality from lignite, or brown coal, to bituminous coal, identical in composition with that of the true coal measures, and in the Rocky Mountains it becomes an anthracite. In an area of 27,000 square miles, embracing the southern portion of the district of Alberta and part of Assiniboia, it has been ascertained by geological tests that no portion of the entire region was at a greater distance than thirty miles from the natural outcrop of some coal or lignite bed, which would be available for local use. Coal beds of a quality superior to that found elsewhere on the west coast have been worked for upwards of thirty years at Nanaimo, in Vancouver's Island, a section of the

Pacific province of British Columbia. From this source the markets of San Francisco in California, the Sandwich Islands, Alaska, and portions of the China coast are largely supplied. The total output at Nanaimo in 1885 amounted to 365,000 tons. The prospect of tapping vast petroleum wells near Athabasca and Mackenzie Rivers is exceedingly hopeful.

Iron ores are found in abundance, and of excellent quality, in Nova Scotia, and often in the immediate vicinity of coal. The province of Quebec, which contains no coal, has large deposits of iron of various kinds. In British Columbia, Texada Island is described as being one mass of iron ore.

Gold mining in Nova Scotia has become important and remunerative. The gold is entirely obtained from quartz, and is mined and crushed at several localities in the province. In Ontario the gold-producing districts of Marmora, Madoe, and Minden Bay on Lake Superior, all promise well. But, hitherto, British Columbia has been pre-eminently the auriferous province of the Dominion. In the thirty years which have elapsed since gold was found on the Fraser River, the value of £10,000,000 in gold has been extracted, chiefly from alluvial sources. British Columbia covers a portion of the northern extension of the Sierra Nevada region, which, in the western States of the Union, has proved to be the great metalliferous belt of the American continent. The absence of facilities of transit has, thus far, checked the development on a fitting scale of the enormous gold deposits known to be looked up in the quartz strata of the province. But since the trans-continental railway has been completed, discoveries have been announced in all directions of gold-bearing quartz, rich silver, and other valuable ores.

In the census year the metallic products included 70,015 ozs. of gold, 87,024 ozs. of silver, 223,057 tons of copper ore, 1,307,824 tons of coal, 15,490,622 gallons petroleum, 183,076 lump gypsum, 472,074 barrels salt, &c., and the quantities of these products have since then immensely increased.

FISHERIES.—Although the maritime provinces of the Dominion regard "the harvest of the sea" as a staple industry, the richest fishing ground in the country, if not in the world, is on the coasts and in the rivers of British Columbia. Sturgeon are caught in that province weighing over 500 lbs. Five species of salmon make their way 1000 miles up Fraser River in dense shoals. There appears to be no limit to the catch of that fish, which sells in the city of Victoria at the small charge of 2½d. per lb. Oulachans, a kind of sprat, rather larger than a sardine, which ascend the rivers in millions, yield a fine oil, and taste deliciously fresh, salted or smoked. Several species of cod are met with in the Gulf of Georgia. Herring abound, and are extensively used, fresh and smoked. Anchovies are only second to oulachan in profusion. Haddock is caught in the winter months. Trout abound in most of the lakes and streams, weighing from three to eight pounds.

EXPORTS AND IMPORTS.—Canadian trade experienced considerable depression between 1883 and 1886, but signs of improvement are now visible. In the former year the total exports were £39,617,160, and the total imports £26,450,804, against £17,557,303 and £21,457,102 respectively in the latter year. The exports for 1886 comprised principally animals and their produce, timber, agricultural products, manufactures, fisheries, and minerals. Official authorities distinctly point out the extraordinary advance made in the trade of the Dominion since confederation. The total trade in 1868 was 131,027,532 dols., and in 1885-6, 189,657,875 dols. It is noteworthy that even the additions lately made to the previously high protective duties of the Dominion have not perceptibly checked the growth of her imports. The latter for the year ending June, 1887, were 8 per cent. more than the average for the twenty years intervening since the confederation, and 6,000,000 dols. more than in 1886. At the same time, the exports for 1887 exceeded by 4,250,000 dols. those of 1886. Thus the export and import trade for 1887 together increased 10,250,000,000 dols. The United Kingdom contributes one-half of the total imports.

REVENUE, EXPENDITURE, AND BANKING.—The public expenditure, which in 1886 was 39,011,612 dols., was in excess of revenue, which amounted to 33,177,040 dols. That circumstance is due to expenses connected with the suppression of the Riel rebellion in the North-west territory. The estimated expenditure for the year ending June, 1888, is 42,321,182 dols., and the estimated revenue 36,400,000 dols. The Government debt, which has been greatly increased in the past seventeen years to provide increased railway accommodation, stood in July, 1886, at £54,632,868; the total burden, after deducting assets, being equal to £9 8s. 7½d. per head of the population. The total paid-up banking capital in the year immediately after confederation was 30,477,899 dols., compared with 61,230,370 dols. in December, 1886, when the total deposits were 112,130,360 dols., against only 30,168,556 dols. in 1868.

RAILWAYS.—At the close of the fiscal year 1885 there were 10,773 miles completed, and 812 miles under construction; and in every province, with the exception of Prince Edward's Island, which is already amply provided for in this respect, new roads are penetrating regions hitherto inaccessible. The total amount of paid-up capital expended in the construction of railways in Canada at the end of the fiscal year 1886, was 653,376,144 dols., the earnings being 33,389,882 dols., and the expenses 24,177,582 dols.

CANADIAN EXHIBITS.

II.

Education and Instruction—Apparatus and Processes of the Liberal Arts.

CLASS 6.—EDUCATION OF CHILDREN, PRIMARY INSTRUCTION, INSTRUCTION OF ADULTS.

- 1 M'Lachlan, D., Ontario, Canada.—Exhibition of penmanship.

- 13.—MUSICAL INSTRUMENTS.
1 Guelph and Co., Guelph.—Cabinet organs.
2 Clinton and Co., Clinton, Ontario.—
2 Bell, W., and Co., Toronto.—Pianos
3 Doherty, W., and Co., Toronto.—Pianos
Cabinet organs.
4 Hintzman and Co.,

VI.

Raw and Manufactured Processes and Products.

CLASS 44.—CHEMICAL AND PHARMACEUTICAL PRODUCTS.

- 5 Easty, E. M., Moncton.—Pharmaceutical preparations.

VII.

Machinery, Apparatus, and Processes used in the Mechanical Industries.

CLASS 47.—AGRICULTURAL IMPLEMENTS AND PROCESSES USED IN THE CULTIVATION OF FIELDS AND FORESTS.

- 6 Massy Manufacturing Co., Toronto, Ontario.—Harvesting machinery.

- 7 Waterous Engine Works Co., The, Brantford.—Fireproof champion engine, for farm use.

CLASS 48.—APPARATUS AND PROCESSES USED IN AGRICULTURAL WORKS AND IN WORKS FOR THE PREPARATION OF FOOD, IRRIGATION OF LAND, &c.

- 8 Halifax Manufacturing Co., Halifax.—Tools.

- 9 Woodburn, J. R., and Co., St. John's, New Brunswick.—Improved sugar, cream of tartar, and starch pulveriser.

CLASS 51.—MACHINES AND APPARATUS IN GENERAL.

- 10 Burn-Robinson Manufacturing Co., Hamilton, Ontario.—Domestic labour-saving apparatus.

CLASS 54.—APPARATUS AND PROCESSES USED IN WEAVING.

- 11 Creelman Bros., Georgetown, Ontario.—Knitting machine.

CLASS 59.—CARRIAGES AND WHEELWRIGHTS' WORK.

- 12 Armstrong, J. B., Manufacturing Co. Ltd., Guelph, Ontario.—Carriages, carriage hardware, and carriage furnishings.

- 13 Gray, W., and Sons, Chatham, Ontario.—Assortment of carriages, buggies, and carts.

- 14 Industrial Works, Hamilton.—Hand trucks, steps, etc.

- 15 Mc'Connell, J., Guelph.—Buggies and carriages.

CLASS 61.—RAILWAY APPARATUS.

- 16 St. Thomas' Car Wheel Co., St. Thomas.—Chilled cast-iron car wheels for railroad and tram cars.

CLASS 63.—APPARATUS AND PROCESSES ONE CIVIL ENGINEERING, PUBLIC WORKS, AND ARCHITECTURE.

- 17 Taylor, J. and J., Toronto.—Fire and burglar-proof safes and vault doors.

IX.**Sanitation, Medicine, Hygiene, and Public Relief.****CLASS 74.—APPARATUS AND PROCESSES FOR HEATING AND LIGHTING.**

- 18 Burn-Robinson Manufacturing Co., Hamilton.—General assortment of lamps.
19 Rochester Lamp Manufacturing Co., Hamilton.—Nickel Rochester stand and bracket lamps.

XI.**Horticulture.****CLASS 76.—CONSERVATORIES AND HORTICULTURAL APPARATUS.**

- 20 Halifax Manufacturing Co., Halifax.—Garden tools.

XII.**Mining Industries—Machinery and Products.****CLASS 83.—MINING AND METALLURGY.**

- 21 Burn-Robinson Manufacturing Co., Hamilton.—Domestic labour-saving apparatus, bird cages.
22 Halifax Manufacturing Co., Halifax.—Labourers' tools.

BRITISH COLUMBIA.**II.****Education and Instruction—Apparatus and Processes of the Liberal Arts.**

CLASS 12.—PHOTOGRAPHIC PROOFS AND APPARATUS.

- 1 M'Candlish, Emma, Victoria, B.C.—Photographs.

III.**Furniture and Accessories.**

CLASS 25.—LEATHERWORK, FANCY ARTICLES, AND BASKETWORK.

- 2 Picture of pansies, mussel shells, etc.

INTRODUCTION TO THE INDIAN COURT.

The total area of India, including separate states, is 1,574,450 square miles, divided into 501 districts, 714,765 towns and villages; the population, according to the last census returns, being 256,982,495. Indian authorities are not agreed among themselves as to the exact distinction between British and feudatory states, and between those which are feudatory and non-feudatory. Among the dense and heterogeneous population of the country no less than nineteen different native dialects are spoken, and ten religions professed. Bengal alone is larger than Spain, and has a population as great as that of France and the United Kingdom together. It is noteworthy that the relative proportion of females to males in India is the reverse of what it is in European communities, in which females are more numerous than males.

In the British territory of India there are only 96·2 females to every 100 males, while in the native states there are 92 females per 100 males. Of the total number of inhabitants under British rule proper 69,952,747, including 19,000,000 females, or nearly two-sevenths, are connected with agriculture. Next come small manufacturers of every kind and their employés, numbering altogether 21,943,019, of whom 8,184,508 are females. Of the class last mentioned, 2,607,579 males and 2,877,876 females are connected with work in cotton and flax, 2,082,191 males and 733,089 females are identified with work in dress, 1,445,916 males and 1,719,513 females are classed as workers in vegetable food, 640,521 males and 449,205 females as workers in animal food, 708,699 males and 204,331 females associated with the manufacture of drinks and stimulants, 667,286 males and 354,721 females are workers in stone and clay, and 569,128 males and 259,839 females employed in earthenware. Nearly 2,000,000 of both sexes are distributed among the following occupations:—The manipulation of gold, silver, precious stones, iron, steel, bamboo, cane, rush, straw, and leaves. Classed as domestic servants, there are 2,149,629 males and 651,966 females. The officers of municipal, local, and village government number 791,379 males and 17,764 females. Connected with the army are 311,070 males and 1682 females; in mercantile callings, 983,869 males and 124,409 females; general dealers number 886,148 males and 286,464 females; carriers on roads, canals, seas, and rivers, 1,123,438 males and 18,378 females; labourers (undefined), 7,248,491 males and 5,244,206 females.

Rice, the staple food of the natives, has devoted to its culture 37,500,000 acres. Among oil-producing seeds it is chiefly linseed, rape, castor-oil, and til seed that are grown. About 2,000,000 acres are under oil-seed crops, and 850,000 acres under wheat. As the latter article is rarely eaten by the people, it is cultivated almost exclusively to meet the export market. Pulses and lentils are largely grown, and form an important article of food. It is estimated that 8,000,000 acres are devoted to leguminous seeds, and about 350,000 acres are annually under the sugar crop. Of fibrous plants jute is the most valuable; there have recently been devoted to this crop 800,000 acres, chiefly in Eastern Bengal. In Behar and Chinta Nagpur cotton is grown, 300,000 acres being occupied with that plant, and in Eastern Bengal hemp occurs. The latter fibre is extensively cultivated for the manufacture of the narcotic ganja. 1,300,000 acres are annually under indigo at Behar. As regards the production of tobacco, Bengal is the principal province for the cultivation of that industry, to which, in all, nearly 300,000 acres are devoted.

Assam has an area of 1,477,451 acres under cultivation, and 1,662,290 acres under forest, with 11,495,794 acres uncultivated, the bulk of which, however, is suitable for remunerative cultivation. About 1,100,000 acres are under rice, with 50,000 acres under millet and Indian corn. The culture of corn and oil seeds absorbs about 150,000 acres. The tea plant in Assam and Cachar covers about 190,000 acres. From the forests are derived India rubber and wild silks. The eri, or castor oil leaf-feeding silkworm, is perhaps one of the most promising of the new articles of trade. It is a native of India, and has four or five breeding times in the year.

In Burmah the staple crop is rice. In 1886 there were 3,640,000 acres solely under that cereal. The bulk of the foreign exports of rice go from Burmah, although Bengal is the more important rice-producing country. Rice and opium are the only two articles of Indian export trade which are subject to duty on leaving the country, the former paying 15 per cent. Teak-wood and cutch also rank among valuable exports from Burmah. Upper Burmah, which has recently been brought under British administration, is certain to furnish many new products

of economic importance. But even in Lower Burmah there are numerous tracts of land, capable of growing valuable crops, for which there are no cultivators. The total area cultivated in that region in 1885 was 4,306,356 acres, but according to the official survey there are 24,017,083 acres of land available for cultivation, with 25,237,459 acres not available, and 2,266,004 acres under forest.

In Madras, the southern presidency, there are 27,000,000 acres annually cultivated, of which 5,546,191 are artificially irrigated. There are, in addition, 10,600,700 acres available for cultivation, with 8,980,725 acres of forest. Millets and pulses are by far the most important crops grown, and 1,169,079 acres are given to oil seeds. 1,326,718 acres are occupied with cotton, and 321,339 acres with indigo. South Indian planters are extending their acreage of coffee, and it is believed that the coffee culture of South India has a hopeful future before it. Madras derives a large amount of sugar from the Palmyra palm, which, in consequence, increases rapidly in commercial value.

The land of Bombay is also very widely utilised for some of the productions previously mentioned. Nevertheless, there are still no less than 6,737,000 acres which would well repay the application of the plough. In the north-west provinces tea and tobacco are less in favour with farmers, but combined with the central provinces these contain upwards of 8,000,000 acres only awaiting agricultural skill to develop their latent resources. Roughly speaking, there are in India, as a whole, 100,000,000 acres ready to yield adequate returns to proper tillage, 120,000,000 acres being at the same time viewed as waste lands. The total area of crops, irrigated and unirrigated, in British India, excluding Bengal, in 1885-6 was 139,814,992 acres, of which 23,098,822 acres were irrigated.

The total imports to India from other countries for the year ending 31st March, 1887, amounted to 697,443,930 rupees, against 672,898,810 in the previous year. Of that sum more than one-sixth consisted of bullion. The total exports amounted to 991,239,990 rupees, of which only a small fraction was treasure. The value of the rupee varies with the price of silver, and is at present about 1s. 7d. Among imports, cotton manufactures constitute one-half, the other articles, in the order of their importance, being metals and hardware, silk (raw and manufactured), sugar, woollen goods, liquors, railway plant and rolling-stock, oils, machinery, coal, provisions, apparel, and salt. Of exports, one-half comprise grain and pulse, raw cotton, and opium. Other items of importance include hides and skins, seeds, manufactured cotton, tea, indigo, jute, and coffee. Out of a total export value of £85,000,000 to other countries, fifteen articles, some of which have been specified above, aggregate £63,000,000.

The internal trade of a population of 256,000,000 cannot be precisely determined. But if the generally accepted estimate of statistical authorities on the subject be approximately correct, it is much greater than the external trade, exports and imports combined. The external trade alone is valued at upwards of £152,000,000, the imports being £67,000,000, and the exports £85,000,000, and the total trade of India, internal and external, may safely be estimated at £400,000,000, which is rather less than two-thirds of the external trade of the United Kingdom alone. More than two-thirds of the total external trade of India is done with Great Britain and Ireland. The remarkable difference between imports and exports in favour of the latter is one of the characteristic features of Indian trade as distinguished both from the parent country and her colonies, whose imports in every instance considerably exceed their exports. Another peculiarity of Indian commerce is the exceptional amount of the precious metals which the country shows a tendency to absorb. During the past fifty years India has imported £350,000,000 in gold and silver. From £6,500,000 to £7,000,000 of silver alone has been imported in the past five years, an amount far beyond what was required for currency purposes. The inference is that the greater part of these bullion imports is applied to the manufacture of ornaments, and this fact, taken in conjunction with agricultural prosperity, distinctly points to increasing wealth in at least a section of the population.

Large factories are year by year being erected all over the country; so that, in addition to her imports, India is consuming immense quantities of her own loom-power productions. Indian cotton manufactures have not only made rapid progress and met native requirements, but they have entered into competition with European goods in foreign markets. Millions of pounds' worth of Indian yarn-made twists and yarns are exported, chiefly to separate native states and Japan, while, annually, £1,000,000 worth sterling of Indian power-loom goods go to Aden, East Africa, and China; at the same time, European imports of the same character to India show a decline in the ratio of increase.

As affecting the expansion of British trade in India, it is noteworthy that Germany, Belgium, America, and France, are speedily becoming powerful competitors of England in India, owing to their greater promptitude in adapting their wares to the wants and tastes of the natives. There are only one or two soap factories in India, and there is good reason to believe that there is room for many more. Lucifer matches, beads, and umbrellas could also be made cheaper there than in Europe, and a useful industry might be opened up in the manufacture of lace. The scope for growing wine and hops with advantage to persons of capital and enterprise is considered very extensive.

It cannot be said that the state of the revenue has been satisfactory for some years past, and for a very considerable period it has exhibited no signs of covering the annual expenditure. In 1881 it rose to 742,901,120 rupees. Between 1883 and 1885 it ranged between 702,783,370 and 718,417,900 rupees. In 1886 it improved to 744,641,970 rupees. For the financial year 1886-7 the estimated revenue was 760,810,000, and the estimated expenditure 760,210,000, showing, on paper, an estimated surplus of 600,000 rupees. The three chief sources of revenue are land, opium, and salt, the first being greatly the most productive. Before the mutiny in 1857 land formed one-half the total receipts of the East India Company; but at present, when the necessities of the Indian Exchequer require that Government should resort more largely to the aid of indirect taxation, the revenue from land produces not quite so much in proportion, although it still forms one-third of the total receipts of the Empire. The principle of inland revenue in India may be regarded not so much as a tax on the landowners, as a division of the produce of the soil between the ostensible proprietors and the State, who sustain to each other a sort of co-partnery relationship.

INDIAN AND CEYLON EXHIBITS.

III.

Furniture and Accessories.

CLASS 17.—UPHOLSTERERS' AND DECORATORS' WORK.

- 1 Indian Traders Co. Ltd., Flinders-lane East, Melbourne.—Curtains.
- 2 M'Dowell and Co., Madras.—Curtains. Burstall & Co., 14 Queen-st., Melb., Agents.

CLASS 18.—CARPETS, TAPESTRY, AND OTHER STUFFS FOR FURNITURE.

- 3 Gowmull, Jethmull and Co., Bombay.—Cashmere carpets.
- 4 Indian Traders Co. Ltd., Flinders-lane East, Melbourne.—Rugs, mats.
- 5 M'Dowell and Co., Madras.—Carpets. Burstall & Co., 14 Queen-st., Melb., Agents.

CLASS 21.—GOLDSMITHS' AND SILVERSMITHS' WORK.

- 6 Gowmull, Jethmull and Co., Bombay.—Kutch silver and gold work.

CLASS 22.—BRONZES AND VARIOUS ART CASTINGS, AND REPOUSSE WORK.

- 7 Anthony and Co., Bombay.—Benares brass-work, copperware.
- 8 Gowmull, Jethmull and Co., Bombay.—Engraved bronzes.

CLASS 25.—LEATHERWORK, FANCY ARTICLES, AND BASKETWORK.

- 9 Anthony and Co., Bombay.—Sandalwood boxes, Indian fans, and perfumed sachets, etc.
- 10 Dhurmidas, I., Scind.—fancy articles, sandal-wood, hand engraved.
- 11 Don Theodoris Co., Colombo.—Ebony goods, tortoise-shell goods, porcupine quill goods, ivory goods, etc.
- 12 Gowmull, Jethmull and Co., Bombay.—Indian fancy articles.

IV.

Fictile Manufactures—Glass, Pottery, &c.

CLASS 26.—CRYSTAL, GLASS, AND STAINED GLASS.

- 13 Lazarus, M., Calcutta.—Spectacles and eye-glasses manufactured in Calcutta.

Sole Agents for Colonies : PFAFF, PINSCHOF & Co., Melbourne.

V.

Textile Fabrics, Clothing, and Accessories.

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| <p>CLASS 32.—SILKS AND SILK FABRICS.</p> <p>14 Dhurmdas, I., Scind.—Silks.</p> <p>15 Gourmull, Jethmull and Co., Bombay.—Silk fabrics.</p> <p>CLASS 33.—SHAWLS.</p> <p>16 Gourmull, Jethmull and Co., Bombay.—Shawls.</p> <p>CLASS 34.—LACE, NET, EMBROIDERY, AND TRIMMINGS.</p> <p>17 Dhurmdas, I., Scind.—Gold and silver embroidery.</p> | <p>18 Don Theodoris and Co., Colombo.—Lace, etc., etc.</p> <p>19 Gourmull, Jethmull and Co., Bombay.—Lace, embroidery, trimmings, etc.</p> <p>CLASS 37.—JEWELLERY AND PRECIOUS STONES.</p> <p>20 Dhurmdas, I., Scind.—Jewellery and ornaments.</p> <p>21 Don Theodoris and Co., Colombo.—Jewellery set with precious stones.</p> <p>22 Gourmull, Jethmull and Co., Bombay.—Jewellery, precious stones, Kutch silver and gold work.</p> <p>23 India Traders' Co. Ltd., Flinders-lane East, Melbourne.—Jewellery.</p> |
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VI.

Raw and Manufactured Processes and Products.

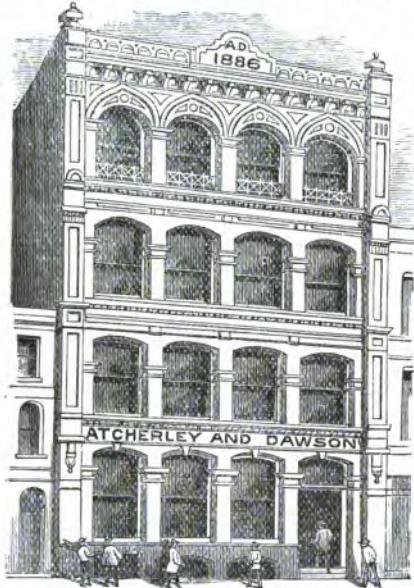
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| <p>CLASS 43.—AGRICULTURAL PRODUCTS NOT USED FOR FOOD.</p> <p>24 Anderson, Wright & Co., Calcutta.—Patent paper-lined woolpacks.</p> <p>25 Catherwood, Welsby and Co., Melbourne.—Silk cotton-tree cotton commonly called kapok.</p> <p>26 Etherajulu, C. K., Naidu, & Co., Madras.—Tobacco and cigars.</p> | <p>27 Heimpel, J., Dindigul.—Cigars.</p> <p>28 M'Dowell & Co., Madras.—Raw and manufactured tobacco. Burstall & Co., 14 Queen-st., Melbourne, Agents.</p> <p>29 Oakes & Co., Madras.—Cigars.</p> <p>30 Vavasseur & Co., Colombo.—Manufacturers of fibres, etc. Sole Australian Agents: Campbell, Guthridge and Co., 13 William-st., Melbourne.</p> <p>CLASS 46.—LEATHER AND SKINS.</p> <p>31 Gourmull, Jethmull and Co., Bombay.—Tiger skins.</p> |
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VIII.

Alimentary Products.

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| <p>CLASS 71.—CONDIMENTA AND STIMULANTS, SUGAR AND CONFECTIONERY.</p> <p>32 Atcherley & Dawson, Flinders-lane, Melbourne.—India and China teas (<i>see page 84</i>).</p> <p>33 Ceylon Tea Planters' Syndicate, Colombo.—Ceylon teas.</p> <p>33a Ceylon and Foochow Tea Co., Ceylon.—Tea.</p> <p>34 Hoare, Miller and Co., Calcutta.—Tea.</p> | <p>35 Ismaele, Moosagee and Co., Korachi.—Indian sweetmeats of all kinds.</p> <p>36 Mautchjee, Manajee, Pomedajee and Sons, Bombay.—Condiments, chutney, curry powder, etc.</p> <p>37 M'Kenzie, H., of Ceylon Chamber of Commerce and Planters' Association, Ceylon.—Tea.</p> <p>38 Thomas, M. W., Oonoongalla, Madulkelly, Ceylon.—Tea.</p> <p>39 Yopaul, Kistnamah, Chetty and Sons' Madras.—Indian condiments.</p> |
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ATCHERLEY & DAWSON,



MELBOURNE.



SYDNEY.

TEA MERCHANTS,

BLENDERS, AND PACKERS,

MELBOURNE,

SYDNEY, and BRISBANE.

Proprietors of the

"GLOBE BRAND"

INDIA AND CHINA BLENDED TEAS,

And of the

"CORONET" AND "BARONET"

TIN-PACKET TEAS.

NOTE.—Excellent value is given in these Teas; special care taken in the packing, tins being used, by which the aroma and flavour are fully retained.

SAMPLE ROOMS, &c.,

INDIAN AND CHINA COURTS,

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INTRODUCTION TO THE MALTESE COURT.

The small number of exhibits from Malta are interesting, as coming from the most important insular station for British men-of-war in the Mediterranean; but ever since the island became a naval depot, its trade has gradually dwindled. Its annals were interwoven with classic history for many centuries before the Christian era. It was once held by the ancient Greeks, and its population carried on considerable mercantile intercourse with the Carthaginians and the Romans. Malta has long been famous for the spinning of cotton thread and the weaving of cotton cloth. Coverlets, tablecloths, towelling, sailcloth, and dress materials from the island have been largely in demand in times past in the markets of Barbary, Greece, and Germany. Diodorus Siculus states that in his day, and long previously, the cotton cloth of Malta was counted superior to all other descriptions in firmness and softness; and Cicero, in his oration against Verres, enumerates among the articles of his plunder a certain fine quality of cotton cloth made in Malta suitable for women's dresses, together with 400 amphorae of Maltese wines. Now, however, the vine, which is largely grown by the inhabitants, is used almost exclusively for the table. In addition to raw cotton, the chief natural products of the island are corn, oranges, melons, potatoes, tobacco, figs, and honey, cigars being an article of considerable export, but the staple manufactures besides cotton cloth include filigree and incifer matches.

In December, 1885, the population of Malta was 157,134, apart from the British troops and their families, who at that period numbered 5507. The public revenue for 1886 was £223,753, and the expenditure £271,407, while the imports amounted to £12,108,187, and the exports £11,413,567. The bulk of the trade was in transit. In grain alone the total value imported was £11,209,445.

MALTESE EXHIBITS.

III.

Furniture and Accessories.

CLASS 21.—GOLDSMITHS' AND SILVERSMITHS' WORK.

1 Borg, M., Valetta, Malta.—Gold and silver filigree work

V.

Textile Fabrics, Clothing, and Accessories.

CLASS 34.—LACE, NET, EMBROIDERY, AND TRIMMINGS.

2 Borg, M., Valetta.—Lace, &c., hand-made.

VI.

Raw and Manufactured Processes and Products.

CLASS 43.—AGRICULTURAL PRODUCTS NOT USED FOR FOOD.

3 Turnbull, junr., and Somerville, Valetta, Malta.—Kaiser-i-Hind cigarettes. Agents: Jacobs, Hart and Co., Queen-st., Melbourne.

BRITISH NEW GUINEA EXHIBITS.

An extensive collection of the natural products, native implements, and weapons, etc.

INTRODUCTION TO BRITISH NORTH BORNEO COURT.

THIS British colony, as it may be called, is the outcome of the labours of some leading British subjects, who, after considerable expenditure of time and money, obtained concessions of land from the rulers of the northern portion of the large island of Borneo in 1877, which eventually merged into the British North Borneo Company, and in 1881 a Royal charter was obtained from Her Majesty's Government, conferring extensive corporate powers upon the Company, the Governorship being intrusted to Mr. W. H. Teacher, formerly Acting-Governor of Labuan and Consul-General for Borneo, the object of the Company being development of natural resources by introduction of capital and labour¹.

The situation is important, both, from a commercial and naval standpoint. It extends from lat. 4° 05' N. to 7° 25' N., and from long. 115° 20' E. to 119° 16', being about midway between Hong Kong and Singapore, and while within 90 miles of the course taken by traders to China and Japan from the west, steamers trading from the latter places to Australia pass close to the west coast. Harbours are fairly abundant, with safe anchorage. A range of mountains runs in a south-westerly direction throughout the territory, reaching to an altitude of 13,700 feet in the mountain of Kinabalu. Many streams find their sources in this range, some of which become fine rivers, the chief of which, Kina Batangan, is navigable by steam launches for 200 miles.

The area is about 31,000 miles, two-thirds of which, from its triangular shape, is surrounded by the sea, giving about 600 miles of coast, which includes all islands within three leagues.

The population is scanty, large tracts of forest country being uninhabited, many wandering tribes living in a very primitive fashion, simply hunting and fishing to provide for their own requirements, without engaging in trade.

The climate, while tropical, is not oppressive, but requires temperance and regularity, as in all other tropical countries, the inhabitants being particularly subject to a mild continual fever or febricula, which is easily overcome, and of short duration.

The temperature ranges from 67·5 to 93 deg. in the shade.

The rainfall has averaged 124·34 inches during the last seven years.

PRODUCTS.

SEA.—Bèche-de-mer, keema, agar, pearls, tortoiseshell, turtle eggs, sharks' fins, sponges, oysters.

FOREST.—Timber, rattans, birds' nests, guano, guttapercha, indiarubber, beeswax, gum, dammar, camphor, vegetable tallow.

SWAMP PRODUCE.—Mangroves, nipa, and nebong palms.

AGRICULTURE.—Although little more than experimental, the following articles have been successfully cultivated:—Tobacco, sugar, pepper, gambier, hemp, cocoa, betel nuts, coffee, kapoc, indiarubber, sago, tapioca, indigo, and fruits.

TRADE.—The returns for 1885 show—revenue, £22,974; expenditure, £43,348; imports, £135,000; exports, £83,075.

MINERALS.—The following have been found:—Gold, precious stones, quicksilver, copper, and tin. The first-named is the only one that has been sought after to any extent, and the country proves to be rich in both alluvial and quartz, but the climate is somewhat against the advantageous working by white men.

Labour and land are to be obtained cheap, the regulations in connection with the latter being adapted from the well-known Torrens Act, title being based upon registration.

BRITISH NORTH BORNEO EXHIBITS.

VI.

Raw and Manufactured Processes and Products.

British North Borneo Company.—A collection of the products of Borneo.

SOUTH AFRICAN EXHIBITS. V.

Textile Fabrics, Clothing, and Accessories.

CLASS 37.—JEWELLERY AND PRECIOUS STONES.

- 1 Dunn, E. J., Kew, Melbourne.—Gems.

VI.

Raw and Manufactured Processes and Products.

CLASS 42.—PRODUCTS OF HUNTING, SHOOTING, FISHING, AND SPONTANEOUS PRODUCTS. MACHINES AND INSTRUMENTS CONNECTED THEREWITH.

- 2 Dunn, E. J., Kew, Melbourne.—Trophy of horns.

XII.

Mining Industries—Machinery and Products.

CLASS 83.—MINING AND METALLURGY.

- 3 Dunn, E. J., Kew, Melbourne.—Minerals.

SOUTH SEA ISLANDS EXHIBITS.

VI.

Raw and Manufactured Processes and Products.

CLASS 42.—PRODUCTS OF HUNTING, SHOOTING, FISHING, AND SPONTANEOUS PRODUCTS. MACHINES AND INSTRUMENTS CONNECTED THEREWITH.

- 1 Flatow, J. V., Carlton, Melbourne.—Shells, etc.
2 Young, E. W.—Shells, etc.

INTRODUCTION TO THE SEYCHELLES COURT.

THE Seychelles Islands, from which a few exhibits have been contributed, form, in conjunction with the Rodrigues and Diego and Garcia Groups, the principal dependencies of Mauritius. The chief of the Seychelles is Victoria, which has a good harbour, situated in the north-east of Mahé, the most important of the group, at a distance of 940 miles due north from Mauritius. With the other insular dependencies of the latter island, they are administered by Commissioners under the control of the Governor of Mauritius. The Seychelles are extremely fertile, and abound in natural beauty. The population in January, 1887, was 15,456 (7845 males and 7611 females). The revenue for 1886 amounted to 152,898 rupees, the expenditure being 112,853 rupees (the present value of the rupee is about 1s. 7d.). The imports for the same period were 409,326 rupees, and the exports 246,470 rupees. The principal exports from these islands are cocoanut oil, cocoanuts, Indian corn, cacao, vacoa bags, soap, vanilla, and tortoise-shell.

SEYCHELLES EXHIBITS.

VI.

Raw and Manufactured Processes and Products.

-
- 1 A general collection of the products, &c., of the Islands.

CLASS 25.—LEATHERWORK, FANCY ARTICLES, AND BASKETWORK.

- 2 Brookes, J. H., Seychelles, Vanilla.—Straw articles, soaps, oils, etc.

INTRODUCTION TO THE UNITED STATES COURT.

COMPARED with all other countries on the globe, the progress of the United States during the past half century is phenomenal, and continues at a rate which cannot be measured by the ordinary tests applied to national growth and development. With an area nearly 500,000 square miles larger than that of Australasia, its population, estimated on 1st July, 1884, at 55,554,000, cannot now fall short of 60,000,000. Thus, in fifty years the States have added to their inhabitants a number equal to the present total population of France. The thirteen millions of Americans in 1830 were considerably more than quadrupled in 1880.

POPULATION AND WEALTH.—At the close of the first decade of the century Virginia took the lead with a population of 974,601, and she contains little over 1,500,000 now. But, as an illustration of how the centre of numerical gravity as regards population shifts from one period to another in a group of States, it may be mentioned that at the close of the second decade of the century the State of New York stood first with 1,372,111 inhabitants, and she keeps the lead still with a population at present of about 5,250,000. Pennsylvania numbers 4,500,000; Ohio and Illinois, over 3,000,000 each, Missouri closely approaching the latter total; Indiana has over 2,000,000; while Georgia, Iowa, Kentucky, Massachusetts, Michigan, Tennessee, and Texas will very soon exceed 2,000,000 inhabitants respectively. Out of a population of 50,000,000 in the States in 1880, no less than 43,475,840 were natives, and 12,978,394 residents of foreign-born parentage. Of this foreign-born total, 4,529,523 had Irish fathers and 4,444,421 Irish mothers, 4,883,842 German fathers and 4,557,629 German mothers, 2,039,808 having fathers and 1,790,200 having mothers who were natives of Great Britain. The foreign-born population form 13·3 per cent. of the population, and of that proportion 41·5 per cent. were natives of the United Kingdom. Of these, on the other hand, two-thirds came from Ireland. Of the total foreign-born residents, 71 per cent. came from the United Kingdom and Germany collectively, and only a small percentage from countries not containing a Teutonic stock.

In 1880 the wealth of the Republic was £9,790,000,000, which was £1,070,000,000 above the estimated wealth of the United Kingdom two years subsequently, and now, doubtless, the total for the States largely exceeds £10,000,000,000. In 1880 American manufactures were about half as great as those of the whole of Europe, the annual savings of the Union amounting to upwards of £210,000,000.

AGRICULTURE.—At the census of 1880 there were 536,081,835 acres taken up in farms, being less than 30 per cent. of the total area, excluding Alaska and the Indian territory. Ten years previously the farm acreage was returned at 407,735,041, and of this area 284,771,042 acres, or little more than half, were improved. 3,000,000 farms were returned in the census year, the size of which was between 10 and 500 acres; 75,972 farms were returned at 500 to 1000 acres, and 28,575 at 1000 acres and over. In ten years those between 50 and 100 acres increased 57 per cent., those between 500 and 1000 have quintupled, while those above 1000 acres are eight times more in number than in 1870. In 1883 over 18,000,000 acres were in the hands of eight proprietors, while the great railway companies owned 200,000,000 acres. In 1880 the total value of American farms was £2,039,419,335. The total value of farm implements was £81,304,011, and the total value of agricultural produce £442,680,513. The value of cereal crops alone for 1886, was 1,162,161,910 dols., which, though above the value for 1885, fell considerably below that of several preceding years. The production of grain, in bushels, in the States, according to Mulhall, in a recent year was 2,698,000,000, being upwards of 1,000,000,000 bushels more than was grown on 40,000,000 more acres in Russia. In 1860 the export of wheat and flour averaged between £6,000,000 and £8,000,000 sterling. In 1880 £38,000,000 worth was shipped, of which Great Britain alone received £35,000,000. The production has risen from 5,000,000 bushels in 1850 to 44,000,000 bushels in 1880. The acreage covered with wheat was 2,000,000, yielding 22 bushels to the acre. California is the leading State for this crop, New York ranking next to it. Hay is the most valuable of all American crops; the amount cut exceeded 36,000,000 tons on more than 30,000,000 acres. Sorghum, though a plant of recent introduction, appears to thrive in its new home. More than 28,000,000 gallons of molasses were made from it eight years ago, and the quantity is immensely larger now. In 1882 the total area under cotton was 16,276,691 acres, estimated to yield 6,957,000 bales. In 1885 the acreage was 18,300,865, and the yield 6,575,300 bales, valued at £53,999,980. The area under tobacco in 1885 was 752,720 acres, the crop 562,536,000 lbs., and the value £8,653,119, against 745,000 acres, yielding 580,000,000 lbs., valued at £8,140,000, in 1877.

The total value of farm animals in the United States in 1887 was £480,117,400, and the area exclusively devoted to the rearing of cattle measured 1,356,000 square miles. The number of cattle of all kinds was 48,033,833; sheep, 44,759,814; and swine, 44,612,386. In 1884 more than 500,000 animals were sent to Europe alive, and nearly £1,000,000,000 worth of dead meat. If the estimate of an eminent statistician is correct, that one-third of the whole population of the United Kingdom are dependent for subsistence on imported food, the future of its transportation across the Atlantic is full of encouragement.

It is a notable fact that while the manufacture of butter, as a farm product, increased from 514,092,688 lbs. in 1870 to 777,250,287 lbs. in 1880, that of cheese decreased from 103,663,927 lbs. in 1860 to 27,272,489 lbs. in 1880. This does not include the large amount of butter and cheese manufactured with the aid of chemicals.

Orchard products are in exceptionally great demand, the existing annual value of which is upwards of £11,000,000, and to meet popular wants for certain descriptions of fruit £4,500,000 worth have to be imported.

MINING.—The total output of gold and silver in the country for 1886 was £17,200,000—£7,000,000 gold, and £10,200,000 silver—against a total of £15,250,000 in 1883, when £6,000,000 was in gold and £9,250,000 in silver. The former metal was chiefly raised in California, and the latter in Colorado, Arizona, Utah, Nevada, and Montana. The following other metals obtained in the States may be specified:—

Metals.		Quantity.	Annual Value in dollars.
Pig Iron	5,683,329 tons	95,195,760	
Copper	161,235,381 lbs.	16,527,651	
Lead	135,629 short tons	12,667,749	
Zinc	42,641 "	3,752,408	
Quicksilver	29,981 flask	1,060,000	
Nickel	214,992 lbs.	127,157	
Aluminium	—	27,000	
Antimony	35 ozs.	7,000	

But the amount realised for non-metallic products was considerably larger. These include coal (bituminous, anthracite, and lignite), petroleum, building stone, lime, salt, cement, phosphate rock, limestone for iron flux, mineral waters, natural gas, &c., the total value of which was £58,792,612. If to these articles be added fire-clay, kaolin, and a variety of other materials, the total value of the minerals and metals produced in the States for 1886 reached £93,065,573.

MECHANICAL INDUSTRIES.—The number of factories and mills in 1880 was 253,852, or about 1700 more than in 1870. The capital invested in these establishments was £679,364,710, against £398,148,358 ten years previously. The value of the products of these industrial concerns was £1,079,915,838 in 1880, as compared with £677,172,070 in 1870. More than one-half the establishments are situated in the States of New York, Pennsylvania, Ohio, Massachusetts, Illinois, Indiana, and Michigan.

An industry of vast magnitude is the manufacture of iron and steel, the product of which for 1883 was valued at £80,000,000. In 1886 6,366,688 tons pig iron were produced, and in December of that year the total number of furnaces in blast was 577. In 1885 the Bessemer steel produced amounted to 1,519,426 tons, and the open-hearth steel to 245,606 tons. Eighteen years ago the United States were below France or Germany as regards the manufacture of steel, while ten years later they produced more than these two countries put together. America now makes one-fifth of the iron and one-fourth of the steel of the world, and is second only to Great Britain in these branches. The States have recently advanced in steel production, moreover, to within two or three hundred thousand tons of the parent country. In steel rails the superior position of America is shown by the fact that in 1885 her output was 954,000 tons, against 647,000 tons made in England.

The timber trade is peculiarly American. In thirty-eight years the annual product has increased nearly five-fold, and the capital employed in it has risen in the same ratio. In 1880 this industry gave employment to 148,000 hands, who received annually £6,400,000 in wages, the financial result of their labour being valued at £46,653,745. The amount of superior timber cut annually in the principal lumbering States in the north is about 8,000,000,000,000 feet. This is exclusive of many millions of railway ties, staves, and sets of headings out of inferior wood. In the Southern States 1,000,500,000,000 feet of pine were cut in a single year lately, leaving 216,000,000,000,000 feet standing.

The manufacture of cotton fabrics increases nowhere so rapidly as in the States. Little over a century ago the consumption of raw cotton was only 52,000,000 lbs. in the entire Union, against 250,000,000 lbs. in Great Britain. In 1880 the States consumed in her factories 961,000,000 lbs., against 1,404,000,000 lbs. in the old country. The capital invested in this industry is close upon £45,000,000; the number of operatives employed, 172,600; and the annual value of the goods manufactured, upwards of £40,000,000.

The woollen industry has increased three-fold since 1860. In 1880 the United States used in their manufactures 320,000,000 lbs. of wool, valued at £43,000,000, against 338,000,000 lbs., valued at £46,100,000, used in the United Kingdom. But in 1883-4 the States consumed 396,000,000 lbs. of wool, of which 320,000,000 lbs. were grown at home. The woollen-production in the States is now six times greater than it was twenty-five years ago. The hands employed in it number 90,000, the capital invested is about £20,000,000, and the wages paid £6,000,000 per annum.

The manufacture of mixed textiles, silk, worsted, hosiery, and knitted goods, expands in corresponding proportions.

In the carpet trade, the capital has nearly doubled, and the product has increased 83 per cent. in the last decade. Mr. Carnegie, in his recent statistical work on American development, remarks:—"One is startled to find that more yards of carpet are manufactured in and around the city of Philadelphia alone than in the whole of Great Britain. It is not twenty years since the American imported his carpets, and now he makes more at one point than the greatest European manufacturing nation does in all its territory."

A branch of trade which has attained prodigious proportions during the last half century is that of flouring and grist mills. Judged by the value of products, it would seem to be the foremost in the United States. Its gross production in 1880 exceeded £100,000,000. There were in operation no fewer than 24,000 flouring and grist mills, with a daily capacity of 5,000,000 bushels, sufficient to grind flour for 50,000,000 Americans and 300,000,000 Europeans, who annually consume 1,347,000,000 bushels.

Hardly less important is the slaughtering and meat-packing business. Though of comparatively recent origin, it has grown to important dimensions. The capital employed in it is about £12,000,000, and it furnishes work for 27,000 hands. The cattle slaughtered in one year is about 2,000,000; sheep, 2,500,000; and hogs, 16,000,000.

The making of boots and shoes by machinery has attained such perfection in the States that it may be said with hardly any exaggeration that a piece of leather passed in at one end of the machinery will come out a pair of boots at the other. By means of a modern machine a man can make 300 pairs of boots in a day, and a single factory in Massachusetts turns out as many pairs yearly as it would take 32,000 bootmakers in Paris to make in that time on the old manual labour system. In this department the number of establishments have declined 38 per cent. in the decade ending 1880; but owing to the continued improvement in machinery, the number of hands had increased 21½ per cent. as compared with 1870, when the appliances then available were inefficient. At the same time, the increased value of the products was 41½ per cent., and the increase of capital invested in the industry was 48½ per cent. The power used in manufactures in the United States is equal to 3,410,837 horse-power, a force capable of raising a weight of 17,000,000,000 tons one foot high.

The position America has attained as a producer of articles of a delicately artistic character is somewhat surprising in view of her youth as a nation. She carried off the gold medal for artistic work in silver at the Paris Exhibitions of 1885 and 1878, also the gold medal awarded for similar workmanship by the Emperor of Russia; and a large percentage of the finer class of silverware made in New York is reported to be sold abroad.

An interesting example of American success in another branch of manufacture is that of watches. Formerly, these articles were made by hand in small factories, chiefly in Switzerland, Coventry, and London; and it is not long since every watch owned by an American was imported. Forty years have not passed since the idea of superseding hand labour in this department by machinery was first conceived. As late as 1854 the principal establishment from which machine-made watches then emanated was able to produce only five watches per day. Now, 1300 is the daily production, and 7000 watches per month are sent to the London agency alone. Three factories of this description are kept actively employed on the same general plan.

The fisheries of the States employ about 140,000 hands, and an invested capital of £7,591,700. 6650 vessels of 220,000 tons; the value of the annual products being £8,600,000. The total value of the products of agriculture, manufactures, mining, forestry, and fisheries in the Union, for the year ending June, 1883, was estimated at £2,000,000,000.

COMMERCE AND NAVIGATION.—The imports of merchandise from abroad for 1887 amounted to 692,319,768 dols., and the export of domestic merchandise, 703,022,923 dols.; against imports, 437,051,533 dols., and exports, 680,709,268 dols. in 1878. The imports of specie in 1887 reached 60,170,792 dols., and the exports of specie 22,710,840 dols., as compared with 29,821,313 dols. specie imported and 27,061,885 dols. exported in 1878. The tendency during the last ten years has been for America to increase the imports of gold from other countries,

and to diminish the exports of that metal, partly in consequence of augmented currency requirements in connection with expanding trade, and partly with the view of swelling the hoard of coin and bullion at the Washington Treasury, in order to pay off the Government bonds coming due, and meeting these obligations under rebate of interest before maturity, when that course happens to become necessary for the purpose of easing casual stringency in the money market. The great imports for 1886-7, consisting of food substances and animals, raw materials, manufactured articles, luxuries, &c., amounted to 692,319,768 dols. The exports, composed of agriculture, manufactures, mining, timber, fisheries, &c., amounted to 703,022,923 dols., which shows a substantial balance in favour of the latter. The articles of largest aggregate value were raw cotton, wheat, meat, bacon, and dairy produce. The exports to the United Kingdom are about six times as great as those to Germany, and 51·65 per cent. of the whole export trade of America. The imports from the United Kingdom were more than double those from Germany, or 23·84 per cent. of all the imports into America. Germany stands second in importance on the list of foreign countries doing business with the States. The exports to Australasia were 9,543,474 dols., while the imports were only 4,411,119 dols., or less than one-half the value of the goods sent to this part of the world from the States.

RAILWAYS, TELEGRAPHS, AND TELEPHONES.—Sixty years ago the first line of railway was opened for traffic at Quincy, Massachusetts, and in January, 1888, the total length of railways had increased to 150,710 miles, 12,724 miles having been laid in 1887. The total capital invested in railways in 1886 was £1,614,714,678. The gross yearly earnings were £153,062,103, and the net earnings £53,297,798. The lines are all the property of private companies.

The telegraphs are almost entirely in the hands of the Western Union Telegraph Company, which had in 1886 151,832 miles of line, 489,607 miles of wire, and 15,142 offices. The number of messages transmitted in 1886 was 43,289,807, the receipts 16,298,638 dols., expenses 12,378,788 dols., and profits 3,919,855 dols. Including minor lines, there were altogether open for public use in 1886 170,000 miles of telegraph lines. In the same year 114,371 miles of telephonic wire were in operation belonging to one company, with 330,000 telephones and 752 telephone exchanges. Including smaller companies, the estimated number of miles of telephonic wire in use in 1886 was about 130,000 miles.

POSTAL BUSINESS.—The postal business of the United States for the fiscal year 1886-7 was as follows:—5,834,690,875 pieces of ordinary mail matter were dealt with in the railway postal cars, 15,725,569 registered packages, and 950,613 “through registered and inner registered sacks;” 16,155,134 money orders were issued, representing in amount 138,267,016 dols. There were 55,157 offices. The total expenditure of the department for the twelve months was 52,391,678 dols.; total receipts, 48,837,610 dols.; the excess of expenditure over receipts being 3,554,068 dols.

GOVERNMENT REVENUE AND EXPENDITURE.—The two main sources from which the revenue of the States is derived are duties on imports, and internal revenue taxes upon distilled spirits, fermented liquors, tobacco, banks, and bankers. The heaviest items in the national expenditure are the war and navy departments, pensions, payment of interest on the public debt incurred by the civil war of 1861-65, and the civil service. Pensions, which amount to about 80,000,000 dols., are the largest separate item in the list, and equals “civil and miscellaneous expenses” collectively. Pensions are paid largely to men who served and were disabled in the war, and to widows and families of deceased soldiers. The cost of general administration, with the expenses of the Executive and the Legislature, is comparatively small. In 1887 the total net revenue was 371,403,277 dols., and the expenditure 267,932,180 dols., against 257,763,878 dols. and 236,964,327 dols. respectively in 1878. These figures include interest and premiums incidental to the public debt. At the close of the fiscal year, 30th June, 1887, there was a surplus of £11,113,566. The estimated revenue for 1888-9 is 383,000,000 dols., and the estimated expenditure 316,817,785 dols. These figures, if realised, will yield a surplus, after providing for the sinking fund, of £11,293,841. The surpluses are all available for reducing the public debt, and during the year ending 30th June, 1887, the sum devoted to this purpose was £25,585,368, including sinking fund and redemption. The national debt in 1866 amounted to £554,647,234; but by gradual redemption it was reduced on 1st December, 1887, to a gross total of £335,163,332. But after deducting the cash in the treasury to the credit of the national account, the actual net debt on that date stood at £248,036,610. Of that total, £123,889,403 bears no interest. Included in these figures is the United States liability for £12,924,702 6 per cent. bonds issued to the Pacific railways, which pay over 5 per cent. of their net earnings on the principal. The bulk of the American debt was originally contracted at 6 and 5 per cent. on different portions, but more than half the interest-bearing debt is now at 4 per cent., and the remainder at 4*½* per cent. The national debt amounts to only £5 per head of the population, and the annual interest to 3*s.* 6*d.* per head. The assessed valuation of the real property of the States for 1880 was returned at £2,607,353,385, and personal property at £773,245,323, being a total of £3,380,598,708. The total amount of taxable property, real and personal, in 1886, was £4,277,487,567.

Jaenecke Bros. & Fr. Schnemann,

UNITED STATES EXHIBITS.

[All exhibits under Section I. are transferred to the Fine Arts Section of the Catalogue, where they will be found under heading "UNITED STATES."]

[Additions to the list of exhibits for this Court, which arrived too late for insertion in their proper places, will be found in "ADDENDA" at end of this Volume.]

II.

Education and Instruction—Apparatus and Processes of the Liberal Arts.

Class 9.—Printing, Books.

- 1 "American Mail," printed by Lockwood Press, New York.—Publication, "American Mail."
- 2 Health Publishing Company, Battle Creek, Michigan.—Anatomical, physiological, and hygienic charts ; books on rational medicine, etc.
- 3 International Tract and Missionary Society, Battle Creek, Michigan.—Bibles, tracts, periodicals, etc.
- 4 The Publishers of the "American Art Printer," New York.—Collection of fine printing.

Class 10.—Stationery, Bookbinding, Painting, and Drawing Materials.

- 5 Barnes, A. S., New York.—Writing and copying inks, pens, &c.
- 6 California Paper Co., San Francisco.—Newspaper and Manila paper. Agents: H. P. Gregory & Co., 104 Bourke-st. West, Melbourne ; and 17 Pitt-st., Sydney.
- 7 Don, W., New York.—Fretwork and wood for artistic purposes.
- 8 Hauffman and Strauss, New York.—Advertising novelties, fine lithographic work.
- 9 Livermore, C. W., Providence, R.I.—Stylographic pens, etc.
- 10 Philadelphia Novelty Co., Philadelphia.—Novelties in stationery specialties, etc.
- 11 Pratt Copying Book Co., New York.—Letter copying book, etc.
- 12 Rogers, L. H., New York.—Tissue and tracing papers.
- 13 Scotford Manufacturing Co., Greenworth-st., New York.—Rubber stamps, presses, ink for rubber stamps.

Class 11.—General Application of the Arts of Drawing and Modelling.

- 14 Burn, W., New York.—Art novelties, etc.

Class 12.—Photographic Proofs and Apparatus.

- 15 Burn, W., New York.—Enlarged photographs, etc.

16 Merry, T. B., Oregon.—Photographs of dogs.

- 17 Pope and Talbot, San Francisco, Cal.—Photographs of timber mills at Puget Sound, British Columbia.

- 18 Toune, B. C., Portland, Oregon.—Group of setter slut and puppies.

Class 13.—Musical Instruments.

- 19 Beethoven Piano Organ Co., New Jersey.—Cabinet and orchestral organs; golden tongue reeds ; cases in walnut, oak, holly, etc.

- 20 Behr Bros. and Co., New York.—Pianos, containing patent cylinder top, finger guard, Bessemer steel action frame, etc.

- 21 Carpenter's Angelus Organ.—Various styles of organs.

- 22 Dyer and Hughes, Worcester.—Cabinet organs.

- 23 Farrand Votey Organ Co.—Organs.

- 24 Kimball, W. W., and Co., Chicago.—Organs.

- 25 Loring and Blake, Worcester, Mass.—Organs.

- 26 Mason and Hamlin, New York.—Various styles of cabinet organs.

- 27 Miller Organ Co., Lebanon.—Organs.

- 28 Smith American Organ Co., Boston.—Cabinet organs.

- 29 The Estey American Organ Co., Vermont.—Various styles of American organs.

- 30 T. M. Antisell Piano Co., San Francisco.—Upright Antisell grand piano, with metallic rest, which keeps the piano permanently in tune.

- 31 Wilcox and White Organ Co., Meriden, Conn.—Organs.

Class 14.—Mathematical and Philosophical Instruments.

- 32 Livermore, C. W., Providence, R.I.—Optics.

Sole Agents for Colonies : PFAFF, PINSCHOF & Co., MELBOURNE.

III.

Furniture and Accessories.

Class 16.—Furniture.

- 33 American Oil Stove Co., Gardner, Mass.—Oil stoves and accessories.
 34 Bissell Carpet Sweeper Co., New York.—Carpet sweepers, etc. Agents: Harry Dix & Co., 65 William-st., Melbourne.
 35 Conants, F. H., and Sons, New York.—Chairs.
 36 Empire Wringer Co., New York.—Wringers and towel racks.
 37 Heywood Bros. and Co., San Francisco, California.—Rattan and reed furniture.
 38 Jones, R. B., Philadelphia.—Hammoquette reclining chairs; cabinet gymnasium.
 39 Marwidell, E. H., San Francisco.—Shades (blinds).
 40 Mace, L. H., and Co., New York.—Wooden-ware, kitchen utensils, etc.
 41 Nevins and Haviland, New York.—Automatic shade rollers.
 42 Racine Hardware Co., Racine, Wis.—Opera chairs.
 43 Richmond Cedar Works Ltd., Richmond, Virginia.—Cedar pails, tubs, churns.
 44 Steele, J. J., New York.—Furniture.
 45 Union Indurated Fibre Co., New York.—Fibre ware.
 46 Union Stair Pad Co., Boston, Mass.—Carpets, felt stair pads, etc.

Class 17.—Upholsterers' and Decorators' Work.

- 47 Chas. M. Plum Upholstery Co., San Francisco.—Chairs upholstered in silk material, double pillow ottoman, Smyrna rug.
 48 Swan & Whitehead, Fenton, N.J.—Fancy lamp-shades.
 49 Trenton Spring Mattress Co., Trenton, N.J.—Window blinds (fancy) and wire mattresses.
 50 Whiting, J. L., and Son, Boston, Mass.—Paint and varnish brushes.

Class 21.—Goldsmiths' and Silversmiths' Work.
 51 Horton, Angel & Co., Attleboro, Mass.—Jewellery.

- 52 Livermore, C. W., Providence, R. I.—Jewellery.
 53 Joseph Fahy's Watch Case Co., New York.—Watch cases, etc.

Class 22.—Bronzes and various Art Castings.

- 54 Ansonia Clock Co., Ansonia, Conn.—Bronze figures, etc.

Class 23.—Clocks and Watches.

- 55 American Waltham Watch Co., Waltham, Mass.—Watches, etc.
 56 American Elgin National Watch Co.—Watches.
 57 Ansonia Clock Co., Ansonia, Conn.—Bronze clocks, etc.
 58 Horton, Angel & Co., Attleboro, Mass.—Watches.
 59 Seth Thomas Clock Co., Thomaston, Conn.—Clocks.
 60 Self-winding Synchronising and Clock Co. Ltd., New York.—Self-winding electric motor and synchronising clocks.
 61 Waterbury Watch Co., Waterbury, Conn.—Waterbury watches.

Class 24.—Perfumery.

- 62 Colgate & Co., New York.—Toilet soaps, scents, etc.
 63 Ladd and Coffin, New York.—Lundborg's perfumery.
 64 Western Perfumery Co., San Francisco, Cal.—Perfumery.

Class 25.—Leatherwork, Fancy Articles, and Basketwork.

- 65 Johnson & Nichol, Medina, N. Y.—Vulcanite fibre pails.

IV.

Fictile Manufactures—Glass, Pottery, &c.

Class 26.—Crystal, Glass, and Stained Glass.
 66 Adams and Co., Pittsburgh, Penn.—Table glassware.

- 67 The Thos. Evans Co., Pittsburgh, Penn.—Lamp chimneys, lantern globes, candy jars, and silvered reflectors.

V.

Textile Fabrics, Clothing, and Accessories.

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| <p>Class 35.—Hosiery and Underclothing, and Accessories of Clothing.</p> <p>• 68 Banning, Cenniver and Co., New York.—Haberdashery, etc.</p> <p>• 69 Leak Glove Manufacturing Co., Mon. Leak, San Francisco.—Leather gloves and tanned leather for making same.</p> | <p>Class 39.—Travelling Apparatus and Camp Equipage.</p> <p>75 Cortland Waggon Co.—Buggies, &c.</p> <p>76 Simon, H., and Bros., Newark, N.J.—Trunks, etc.</p> |
| <p>Class 36.—Clothing for Both Sexes.</p> <p>• 70 The Singer Manufacturing Co., New York.—Clothing.</p> <p>• 71 Wheeler and Wilson Manufacturing Co., New York.—Clothing made by sewing machines.</p> | <p>Class 40.—Toys.</p> <p>77 Bigger and Evans, Cincinnati.—Roller skates.</p> <p>78 Gendon Iron Wheel Co., Toledo, Ohio.—Perambulators, etc.</p> <p>79 Oakman, J. C., 193 Greenworth-st., New York.—Roller skates and wheels.</p> <p>80 Shepard Hardware Co., Buffalo, N.Y.—Mechanical toy banks, etc.</p> |
| <p>Class 38.—Portable Weapons, and Hunting and Shooting Equipments.</p> <p>• 72 Marlin Firearms Co., Newhaven, Conn.—Guns and rifles.</p> <p>• 73 Oakman, J. C., New York.—Guns and rifles.</p> <p>• 74 The Winchester Repeating Arms Co., New Haven, Conn.—Rifles, etc.</p> | <p>Class 41.—Products of the Cultivation of Forests and of the Trades Appertaining Thereto.</p> <p>81 Pope and Talbot, San Francisco, Cal.—Samples of wood.</p> <p>82 Smith and Young, San Francisco.—Building supplies.</p> |

VI.

Raw and Manufactured Processes and Produce.

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| <p>Class 42.—Products of Hunting, Shooting, Fishing, and Spontaneous Products, Machines and Instruments Connected Therewith.</p> <p>• 83 Devine, F. D., Utica, New York.—Fishing rods.</p> <p>• 84 Merry, T. B., Oregon.—Case of Oregon quail (stuffed).</p> <p>• 85 Yarnum and Cebe, New York.—Automatic fishing reel.</p> | <p>• 92 Horn and Co., San Francisco, Cal.—Tobacco and cigars.</p> <p>• 93 Maclin, J. H.—Tobaccos. Agents : Jacobs, Hart and Co., Queen-st., Melbourne.</p> <p>• 94 Taylor Bros. and Co., Winston, North Carolina.—Tobacco.</p> <p>• 95 Williams, T. C., and Co., Richmond, Va.—Leaf and manufactured tobacco.</p> |
| <p>Class 43.—Agricultural Products not used for Food.</p> <p>• 86 Allen and Ginter, Richmond, Va.—Tobacco, cigarettes, etc.</p> <p>• 87 Cameron, W., and Bros., Petersburg, Va.—Tobacco. Agents : Dalgety and Co. Ltd., Melbourne.</p> <p>• 88 Cameron, A., and Co., Richmond, Va.—Tobacco. Agents : Dalgety and Co. Ltd., Melb.</p> <p>• 89 Dunlop, D., Petersburg, Va.—Tobacco.</p> <p>• 90 Duke, W., and Son, San Francisco, Cal.—Samples of cigarettes.</p> <p>• 91 Goodwin and Co., New York.—Cigarettes, tobacco, etc.</p> | <p>Class 44.—Chemical and Pharmaceutical Products.</p> <p>• 96 Ayer, J. C., and Co., Lowell, Mass.—Patent medicines.</p> <p>• 97 Borne, Scrymser and Co., New York.—Mineral and lubricating oils.</p> <p>• 98 California Glue Works, San Francisco.—Glue.</p> <p>• 99 Cheney, G. S., and Co., Boston, Mass.—Medicinal herbs, roots, barks, and flowers.</p> <p>100 Ellwood Cooper, Santa Barbara.—Olive oil.</p> <p>101 Finch, L. J., New York.—Pharmaceutical preparations.</p> <p>102 Hop Bitters Manufacturing Co., Rochester, New York.—Hop bitters.</p> <p>103 Isley, Doubleday and Co., New York.—Bidwell's axle-grease, etc.</p> |

- 104 Johnston, H. M., New York.—Fresco paints.
 105 Masury, J. W., and Co., New York.—Coach colours and general paints.
 106 Matchless Metal Polish Co., The, Chicago.—The matchless metal polish.
 107 Reiger, P., and Co., San Francisco.—Essences and lemon sugar.
 108 Upton, G., Boston, Mass.—Liquid fish glue and gelatine.
 109 Valentine and Co., New York.—Coach-painters' varnish and colours, etc.
 110 Vogeler, Chas. A., and Co., Baltimore, Md.—St. Jacob's oil.
 111 Williams, J. B., Connecticut.—Shaving soap.

- Class 45.—Chemical Processes for Bleaching, Dyeing, Printing, Dressing.
 112 White, A. A., and Co., Boston, Mass.—Enamel top dressing for patent leather.

- Class 46.—Leather and Skins.
 113 Gregory, H. P., and Co., San Francisco.—Raw and tanned belting.
 114 Howard Bros. & Co., New York.—Razor straps. Agents: H. P. Gregory & Co., 104 Bourke-st. West, Melbourne; and 17 Pitt-st., Sydney.
 115 Kron, A. R., and Co., Santa Cruz, Cal.—Leather and belting.
 116 Ward, E. S., and Co., Newark, N.J.—Leather for carriage and harness use. Agent: J. C. Oakman, Sydney and New York.

VII.

Machinery—Apparatus and Processes used in the Mechanical Industries.

- Class 47.—Agricultural Implements used in the Cultivation of Fields and Forests.
 117 Allen, L., Philadelphia, Pa.—Hand seed sowers.
 118 Auburn Manufacturing Co., New York.—Agricultural implements.
 119 Aultman, Miller and Co., Akron, Ohio.—Buckeye mowers, etc.
 120 Baker and Hamilton Benicia Agricultural Works, 88 Wall-st., New York.—Plough.
 121 Bickford and Huffman, Macedon, New York.—Grain drill.
 122 Blair Manufacturing Co., Springfield, Mass.—Lawn-mowing machines.
 123 Bradley, D., Manufacturing Co., Chicago.—Ploughs, etc.
 124 Deering Reaper and Binder Mowing Machine Co.—Harvesting machinery.
 125 Derby and Bell, Bellows Falls, Vt.—Woodware, scythe handles.
 126 Dille and McGuire Manufacturing Co., Richmond, Ind.—Lawn mowers.
 127 Dunn Edge Tool Co., Oakland, Maine.—Hay knives, etc.
 128 Economist Plough Co., South Bend, Ind.—Ploughs and attachments.
 129 Frazer Lubricator Co., New York.—Frazer axle-grease.
 130 Freeman, S., and Sons' Manufacturing Co., Racine, Wis.—Broadcast seed-sower and attachments.
 131 Geneva Tool Co., Geneva, Ohio.—Hand agricultural implements.
 132 Mast, P. P., Springfield, Ohio.—Seed drill.
 133 McCormick Harvesting Machine Co., Ltd., Chicago.—McCormick steel reaper and binder.

- 134 Osborne, D. W., and Co., Auburn, N.Y.—Reaper, binder, etc.
 135 Pease, H. H., Manufacturing Co., Racine, Wis.—Farm Winnowers.
 136 Racine Hardware Co., Racine, Wis.—Seedsower.
 137 The Hiram Holt Co., East Stilton, Maine.—Lightning hay forks.
 138 Thornton, J., Philadelphia.—Potato-diggers and corn-shellers. Agents: H. P. Gregory & Co., 104 Bourke-st. West, Melbourne; and 17 Pitt-st., Sydney.
 139 W. A. Woods Mowing and Reaping Machine Co., Hoosick Falls, N.Y.—Reaper and binder.
 Class 48.—Apparatus and Processes used in Agricultural Works, and in Works for the Preparation of Food, Irrigation of Land, &c.
 140 American Machine Co., Philadelphia.—Scales, hardware specialties.
 141 Buffalo Pitts Agricultural Works Co., Buffalo, N.Y.—Threshing machines, etc.
 142 Equity Water Meter Co., San Francisco.—Water meter.
 143 Garden City Mill Furnishing Co., Chicago.—Flour-milling machinery.
 144 Gould's Manufacturing Co., Seneca Falls, N.Y.—Cistern and force pumps.
 145 Howes and Ewell, Silver Creek.—Flour-milling machinery.
 146 Moline Co., Moline, Illinois.—Farming implements.
 147 Peabody, H., and Co., Boston.—Farm mills.
 148 Reid, A. H., Philadelphia.—Dairy fixtures.
 149 Richmond Manufacturing Co., Lockport, N.Y.—Wheat-cleaning machinery for flour mills.
 150 Smith, G. T. (Middlings Purifier Co.), Jackson, Mich.—Flour-milling machinery.
 151 Vermont Farm Machine Co., Bellows Falls, Vt.—Apparatus for cooling milk, etc.

Class 49.— Implements, Models, and Plans connected with Irrigation of Land.

152 Golden State and Miners' Iron Works, San Francisco.—Model of American dredger.

153 Gregory, H. P., and Co., San Francisco.—Hand pumps.

Class 51.—Machines and Apparatus in General.

154 American Waltham Watch Co., Waltham, Mass.—Machines for making various parts of watch movements.

155 Bailey Wringing Machine Co., Woonsocket, R.I.—Wringing machines, etc.

156 Barnes, W. and John, Co., Rockford, Ill.—Hand and foot power machinery. Sole Agents Australia and New Zealand: H. P. Gregory & Co., 104 Bourke-st. West, Melbourne; and 17 Pitt-st., Sydney.

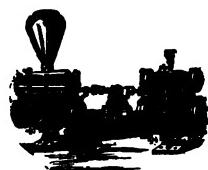
157 Battle Creek Machinery Co., Michigan.—Carving and panelling machinery. Sole Agents Australia and New Zealand: H. P. Gregory & Co., 104 Bourke-st. West, Melbourne; and 17 Pitt-st., Sydney.

158 Bentzen, C. A., New York.—Washing machines.

159 Bliss, R., Manufacturing Co., Pantucket, R.I.—Mallet handles, etc.

160 Blake, G. F., Manufacturing Co., New York.—Special steam pumping machinery.

G. F. BLAKE MANUFACTURING COMPANY.



"SPECIAL" DIRECT-ACTING STEAM PUMPS.

For Boiler Feed, Hydraulic, Agricultural, and Mining Service.

Sole Agents for Australia and New Zealand: H. P. GREGORY & CO., 104 Bourke-street West, Melbourne; and 17 Pitt-street, Sydney.

161 Buchanan Windmill Co., Buchanan, Mich., U.S.A.—Manufacturers of windmills, pumps, &c. Agents: Welch, Perrin and Co., Moray-st., South Melbourne.

162 Buffalo Forge Co.—Forges, blowers, etc. Agents: H. P. Gregory and Co., 104 Bourke-st. West, Melbourne; and 17 Pitt-st., Sydney.

163 Eagle Lock Co., Terryville, Conn.—Locks.

164 Electric C. and C. Motor Co., New York.—Electric motors, etc.

165 Empire Laundry Machinery Co., Boston.—Laundry machinery. Sole Agents Australia and New Zealand: H. P. Gregory & Co., 104 Bourke-st. West, Melbourne; and 17 Pitt-st., Sydney.

166 Fairbanks, E. and J., and Co., Vermont.—Weighing machines, etc.

167 Gregory, H. P., and Co., San Francisco.—Governors, injectors, and engineers' supplies. H. P. Gregory and Co., 104 Bourke-st. West, Melbourne; and 17 Pitt-st., Sydney.

168 Miller, C. B., New York.—Railroad journal bearings. Agents: H. P. Gregory and Co., 104 Bourke-st. West, Melbourne; and 17 Pitt-st., Sydney.

169 Myers and Ervine, Philadelphia.—Hayfork, etc.

170 National Cash Register Co., Dayton, Ohio.—The national self-acting cash register.

171 Oakman, J. C., New York.—Oakman's patent bicycle.

172 Shepard Hardware Co., Buffalo.—Builders' hardware.

173 Sturtevant, B. F., Boston.—Blowers and exhaust fans. Sole Agents Australia and New Zealand: H. P. Gregory & Co., 104 Bourke-st. West, Melbourne; and 17 Pitt-st., Sydney.

174 The Firm of John Matthews, New York.—Working carbonated beverage apparatus and supplies.

175 The Tanite Co., Strondsberg.—Grinding and sharpening machinery. Sole Agents Australia and New Zealand: H. P. Gregory & Co., 104 Bourke-st. West, Melbourne; and 17 Pitt-st., Sydney.

176 Williams Bros., Phoenix Iron Works, Ithaca, N.Y., U.S.A.—Makers of portable engines and general machinery. Agents: Welch, Perrin and Co., Moray-st., South Melbourne.

Class 52.—Machine Tools.

177 Frank and Co., Buffalo.—Wood-working machinery. Agents: H. P. Gregory & Co., 104 Bourke-st. West, Melbourne; and 17 Pitt-st., Sydney.

- 178 Fay, J. A., and Co., Cin.**—Wood-working machinery.



For Saw Mills, Timber Yards, Furniture Manufacture, Carriage Manufacture, etc. Large Stocks of Fay's Machinery and supplies for same always in stock and arriving. Sole Agents for Australia and New Zealand : H. P. Gregory & Co., 104 Bourke-st. West, Melbourne ; and 17 Pitt-st., Sydney.

- 179 Gregory, H. P., and Co., San Francisco.**—Twist drills.
- 180 Hendy Machine Co., Torrington, Conn.**—Iron-working machinery.
- 181 Lower and Lyon, New York.**—Hardware specialities.
- 182 Marble, G. W., Chicago.**—Wrenches and tools. Agents: H. P. Gregory and Co., 104 Bourke-st. West, Melbourne ; and 17 Pitt-st., Sydney.
- 183 Osborne, C. S., and Co., Newark, N.J.**—Harness, tools, etc. Agent: J. C. Oakman, Sydney and New York.
- 184 Parke and Lacy, San Francisco.**—Wood-working machinery.
- 185 Pike Manufacturing Co., Pike Station, N.H.**—Oil stones, scythe stones.
- 186 Pratt, Whitney and Co., Hartford, Conn.**—Engineers' supplies. Agents: H. P. Gregory and Co., 104 Bourke-st. West, Melbourne ; and 17 Pitt-st., Sydney.
- 187 Standard Handle Co., Knoxville, Penn.**—Hammer, axe, sledge handles.
- 188 Upton, G., Preston, Mass.**—Sand paper and emery cloth.
- 189 Ward, W., San Francisco.**—Steel for fencing, and lathing machine.

Class 53.—Apparatus and Processes used in Spinning and Rope-making.

- 190 Roeblings, John A., and Sons, New York.**—Samples of wire work.

Class 55.—Apparatus and Processes for Making up and for Sewing Clothing.

- 191 Davis Sewing Machine Co., New York.**—Davis' sewing machines.
- 192 The New York Sewing Machine Co., New York.**—Sewing machines.
- 193 The Singer Manufacturing Co., New York.**—Singer sewing machines and their accessories.
- 194 Wheeler and Wilson Manufacturing Co., New York.**—Sewing machines.

Class 56.—Apparatus used in the Manufacture of Furniture and Objects for Dwellings.

- 195 Norton Door Check Spring Co., New York.**—Norton door check spring.

Class 57.—Apparatus and Processes used in Paper-making, Dyeing, and Printing.

- 196 American Paper Bottle Co., New York.**—Machinery for making paper bottles.
- 197 Golding & Co., Boston, Mass.**—Printing machinery, etc.
- 198 Hall Type-Writer Co., Salem, Mass.**—Hall type-writer model, 1887.
- 199 Hammond Type Writer Co., New York.**—Hammond type-writing machine.
- 200 Ives, G. E., New Haven, Conn.**—Printers' requisites.
- 201 MacKellar, Smiths and Jordan Co. Ltd., Philadelphia.**—Metal types and borders.
- 202 Megill, E. L., New York.**—Printers' requisites.
- 203 Page, W. H., Wood Type Co., Norwich, Conn.**—Wood type.
- 204 Root, C. J., Bristol, Conn.**—Printers' machinery.
- 205 The American Writing Machine Co., Hartford, Con.**—Caligraph type-writer.
- 206 Thomson, J., New York.**—Printing machinery.
- 207 Vanderburgh, Wells and Co., New York.**—Cases for holding type.
- 208 Wyckoff, Seamans and Benedict, New York.**—Type-writers and cabinets.

Class 58.—Machines, Instruments, and Processes used in various Works.

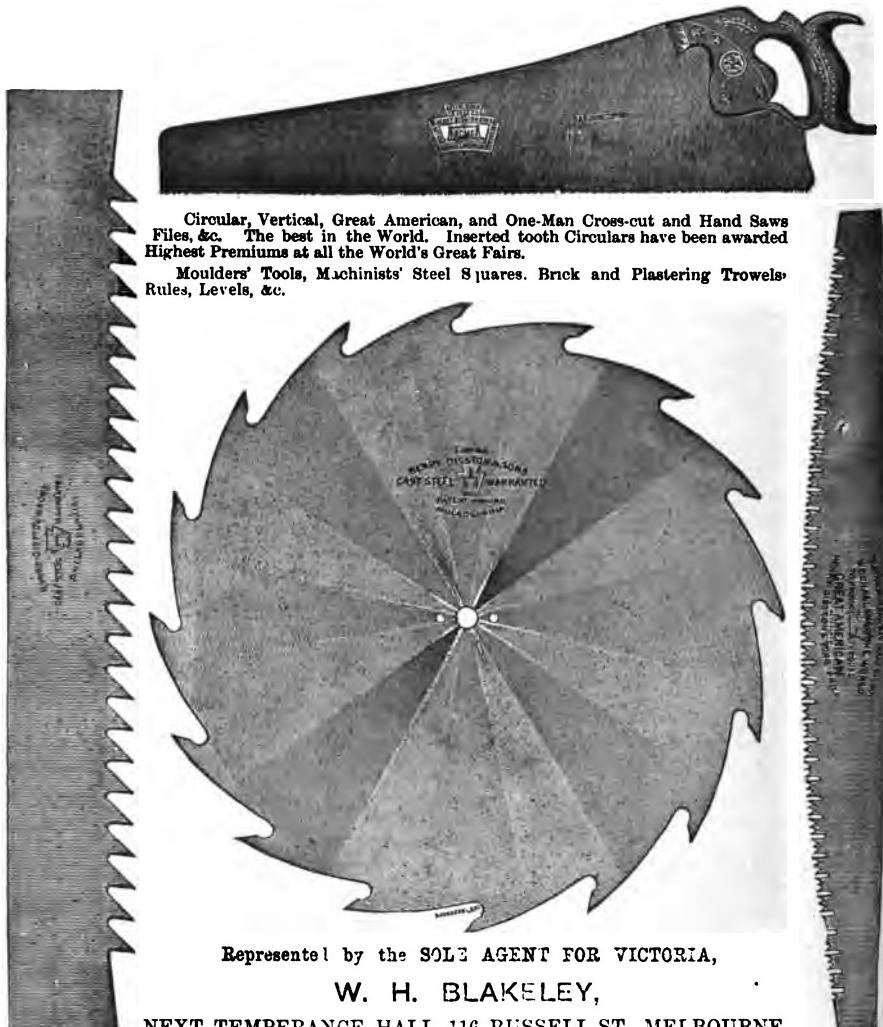
- 209 Bernstein, H., Boston, Mass.**—Machinery to manufacture by hand.
- 210 Chatilton, J., & Sons, New York.**—Weighing scales, etc., for butchers.
- 211 Disston, H., and Sons, Philadelphia, Penn.**—Saws of all descriptions (*see page 98*).
- 212 Hurd, O., Boston, Mass.**—Razor straps.
- 213 Shipman Bros., New York.**—Fret saws.
- 214 Thompson, H. G., New Haven, Conn.**—Bookbinders' wire-sewing machine.
- 215 Turner, Day and Woolworth Manufacturing Co., Louisville, Kentucky.**—Hickory handles.

Class 59.—Carriages and Wheelwrights' Work.

- 216 Boylston, F., New York.**—Baby carriages, etc.
- 217 Bush Gear Manufacturing Co., Stanton, Mich.**—Carriage parts, springs, etc.
- 218 Columbus Buggy Co.**—Buggies.
- 219 Dann Bros. and Co., New Haven, Conn.**—Carriage woodwork.
- 220 Franklin Moore Co., Winsted, Conn.**—Bolts and rivets for carriages and wagons.
- 221 Haydon, A. and M., Philadelphia, Penn.**—Carriage bolts and nuts.
- 222 Oakman, J. C., New York.**—Concave springs.
- 223 Oakman, J. W., New York.**—Concord hames, coach colours, etc.
- 224 St. Thomas Car Wheel Co., U.S.A.**—Car wheels, whole and broken ; test bars broken, chill pieces, etc.
- 225 Studebaker Manufacturing Co., South Bend, Indiana.**—Carriages and buggies.
- 226 Toledo Carriage Woodwork Co., Toledo, Ohio.**—Spokes, hubs, rims, etc.

HENRY DISSTON & SONS'

Keystone Saw, Tool, Steel, and File Works, Philadelphia, Pa., U.S.A.



Class 60.—Harness and Saddlery.

- 227** Elbel and Co., Canton, Ohio.—Carriage and saddlery hardware. Agents: H. P. Gregory and Co., 104 Bourke-st. West, Melbourne; and 17 Pitt-st., Sydney.
- 228** Goertz, A. D., Martinsburg, Pa.—Saddlery.
- 229** Hart and Brandenstein, San Francisco.—Harness and saddlery.
- 230** Oakman, J. C., Greenworth-st., New York.—Oakman's patent lock nut washers.
- 231** Owen, W. H., New York.—Horse nets and carriage whips. Agent: J. C. Oakman, Sydney and New York.
- 232** Standard Gig Saddle Co., Jackson, Mich.—Saddlery and harness goods. Agent: J. C. Oakman, Sydney and New York.
- 233** Wiener and Co., Newark, N.J.—Saddlery hardware

Class 61.—Railway Apparatus.

- 234** Dougherty Railway Equipment Co. Ltd., Philadelphia, Pa.—Railway apparatus.

Class 62.—Electric, Pneumatic, and other Apparatus, and Processes.

- 235** Electrical Protective Supply Co., Chicago, Ill.—Telegraphy, telephone, etc.
- 236** Electric Motor Co., New York.—Electric motors and apparatus.

- 237** Thomson-Houston Electric Co.—

The exhibit of the Thomson-Houston Electric Co. includes an Electric Tramway in complete working order, Arc and Incandescent Light from the same Dynamo, the transformer and direct systems of incandescent lighting, and Generators and Motors for the electric transmission of power.

This system is noted for being, not only the most economical, but also the most successful in the world, and the number of companies at present using it testify to its pre-eminent merits. It installed its first plant in 1883, and on the 1st January, 1888, it had in full working order 343 Central Stations, aggregating 42,907 Arc Lamps, and 119 Stations using its Incandescent System, with 67,500 lamps; this is exclusive of private plants. The fact of the British Government adopting it for lighting Woolwich Arsenal, and the Great Northern Railway at their London stations, proves that its merits are appreciated in England; while the number of other systems it has superseded in America bear testimony to its universal success there. It has never yet been supplanted by any other system.

The Dynamos are perfectly automatic in regulation, allowing the extinguishing and re-lighting of any number of lamps without attention, while its many systems and combinations of Arc and Incandescent lighting facilitate its successful adoption where no other system would be practical. It is without a rival in the lighting of mines and tunnels.

The varied uses to which Electric Motors can be adopted are practically unlimited, as power can be transmitted so easily to great distances; while the small space occupied by the Motor and its freedom from noise allow of its use in small spaces and buildings where steam power would be impractical and gas engines objectionable. They are manufactured by this Company in sizes varying from $\frac{1}{2}$ to 75 horse power.

The Australian agents of this Company are W. H. Masters and Co., 104 Elizabeth-street, Melbourne, who are prepared to give estimates for electric lighting and transmission of power, or undertake the formation of companies for lighting or tramway purposes.

The Exhibit of the Western Electric Co. includes Telephones, switchboards, as used in all the Telephone Exchanges in the world; Police Telephone and Signal System, as used in the principal cities of America; Electric Bells, Hotel Announciators, Fire Alarms, Burglar Alarms, Electric Gas Lighters, and Electric Measuring Instruments, etc.

The agents for the above Company are W. H. Masters and Co., 104 Elizabeth-street, Melbourne, who are prepared to give estimates or receive orders.

- 238** Western Electric Manufacturing Co., Chicago.—Telephone enunciators, bells, etc.

Class 63.—Apparatus and Processes of Civil Engineering, Public Works, and Architecture.

- 239** Cheney Hammer Co., New York.—Tools and hammers.
- 240** Jenks, H. F., Pantucket, R.I.—Improved drinking fountain.

Class 64.—Navigation and Life Saving.

- 241** Consolidated Fire Extinguisher Co., Hartford, Conn.—Hand and factory extinguishers and fire-engine. Agent: J. C. Oakman, Sydney and New York.

- 242** Racine Hardware Co., Wis.—Boats.

- 243** Radix Manufacturing Co., New York.—Patent folding centreboard for boats, etc.

Class 65.—Material and Apparatus for Military Purposes.

- 244** Quackenbush, H. M., Herkimer, N.Y.—Shot and air guns, etc.

VIII.**Alimentary Products.****Class 66.—Cereals, Farinaceous Products, and Products Derived from them.**

- 245** Emerson's Albuminoid Food Co., New York.—Albuminoid food.

- 246** Glen Cove Manufacturing Co., New York.—Duryea's maizena.

- 247** The San Francisco Produce Exchange, 425 California-st., San Francisco.—Cabinet of San Francisco wood containing cereals.

Class 69.—Meat and Fish.

- 248** Delafield, Morgan, Kissell and Co., 71 Hudson-st., New York.—Canned fish.

- 249** Lynde and Hough, San Francisco.—Salt, dried, and pickled fish.

Class 70.—Vegetables and Fruit.

- 250 Delafield, Morgan, Kissell and Co.,
71 Hudson-st., New York.—Canned fruits.
251 Meade and Co., San Francisco.—California
raisins.
252 Newhall, H. M., and Co., San Francisco.—
Dried fruits.

**Class 71.—Condiments and Stimulants, Sugar
and Confectionery.**

- 253 Mailer, W. (Boston Candy Co), San
Francisco.—American candy popcorn.
254 Rosenthal's and Ehrenport, San Fran-
cisco.—Confectionery.

Class 72.—Fermented and Distilled Drinks.

- 255 Anheuser Busch Brewing Associa-
tion, St. Louis.—Lager beer.

256 Arpad, Harasthy & Co., San Francisco.—
California champagne.

257 Beadleston and Woerz, New York.—
Lager beer, etc. Agents: H. P. Gregory and Co.,
104 Bourke-st. West, Melbourne; and 17 Pitt-st.,
Sydney.

258 Bergner and Engel Brewing Co.,
Philadelphia.—Bottled malt liquors.

259 Fredericksburg Brewing Co., San Jose,
Cal.—Lager beer.

260 Greenway Brewing Co., New York.—
Pale ale, porter, stout, etc.

261 Greenebaum, A., & Co., San Francisco.—
Bottled wines.

262 Hannis Distillery Co., Philadelphia.—
Pure rye whisky.

263 Mott, S. R. and J. C., New York.—Cider.

264 Phoenix Bottling Co., New York.—Lager
beer.

265 Wolfe, J. B., New York.—Schiedam
schnapps.

IX.**Sanitation, Medicine, Hygiene, and Public Relief.****Class 73.—Sanitary Appliances, Surgical In-
struments, Plans, Models, &c.**

- 266 Duncome, S., & Co., San Francisco.—Air
compressor, fracture bed.
267 Jones, R. B., Philadelphia.—White's "Physio-
logical Mankind."

268 Oakman, J. C., Greenworth-st., New York.—
Oakman's odorless closets and commodes.

**Class 74.—Apparatus and Processes for Heating
and Lighting.**

- 269 Dietz, R. E., & Co., New York.—Lanterns.

270 Oakman, J. W., Greenworth-st., New York.—
Kerosene stoves.

271 Quick-Meal Vapour Stove Co., St.
Louis.—Portable gasoline stoves, etc.

272 Rathbone, Sard and Co., Albany.—
Stoves for cooking, etc.

273 Standard Lighting Co., Cleveland, Ohio.—
Oil stoves, plumbbers, and tinner's furnaces;
vapour stoves, furnace, and burners, etc.

274 Steam Gauge & Lantern Co., Rochester,
New York.—Lanterns.

275 Wellington Manufacturing Co., New
York.—Street lamps, automatic torches, plumbbers'
and decorators' furnaces, etc.

X.**Agriculture and Associated Industries.****Class 75.—Specimens of Farm Buildings and Agricultural Works.**

- 276 Victor Manufacturing Co., Newburyport, Mass.—Barn-door hanger

XI.**Horticulture.****Class 76.—Conservatories, Horticultural Apparatus.**

- 277 Boston Woven Hose Co., Boston.—Indiarubber fire and garden hose, etc

- 278 Henry, J. T., Hamden, Conn.—Garden tools.

XII.**Mining Industries—Machinery and Products.**

Class 82.—Apparatus and Processes of the Art of Mining and Metallurgy.

279 Cyclone Pulverising Co., New York.—Cyclone pulveriser.

280 Foster Firmant Amalgamator Co., Philadelphia.—Gold ore amalgamator, in complete working order.

281 Pacific Iron Works, San Francisco.—Ore concentrators.

282 Rand Drill Co., New York.—Rock-drill machinery.

283 The Risdon Iron and Locomotive Works, San Francisco.—The "Brefan" crusher and pulveriser, and the "Risdon" ore feeder.

284 Sergeant Rock Drill Co., New York.—Rock drills. Sole Agents Australia and New Zealand: H. P. Gregory & Co., 104 Bourke-st. West, Melbourne; and 17 Pitt-st., Sydney.

**Class 83.—Mining and Metallurgy.**

285 Matchless Metal Polish Co., Chicago.—Tripoli flour.

INTRODUCTION TO THE AUSTRO-HUNGARIAN COURT.

THE Austro-Hungarian dominions have an area of 240,942 English square miles, with an estimated population, at the close of 1886, of 39,640,834. This is exclusive of the Turkish provinces of Bosnia and Herzegovina, which have been under Austro-Hungarian administration since 1878, although not as yet incorporated with the Empire. The inhabitants of the fourteen provinces of Austria proper were understood to have numbered, at the date specified, 23,070,688, and those of the kingdom of Hungary, with Transylvania, Croatia and Slavonia, and the town of Fiume, 16,570,146. If the population of Bosnia, Herzegovina, and Noor-Bazar be added, the total is increased by 1,504,091, 84 per cent. of the adults being farmers and peasants. According to the census taken at the close of 1880, the population was 37,883,226, and at the census preceding the numbers were 35,884,889. The rate of increase for Austria in eleven years cannot be considered great at 3 per cent., while for Hungary it is only 1.24 per cent. The surplus of births over deaths fluctuates considerably. Nevertheless, it does not show any decided decline, as in the case of another of the great countries of Europe.

AGRICULTURE AND STOCK.—The total productive area of Austria proper was 70,726,000 acres in 1885. Of this total, 26,000,000 acres were arable; 7,500,000 were meadow land; 930,000 were devoted to gardens; 6,600,000 acres to pasture lands; 620,000 acres to vineyards; 4,500,000 acres being Alp pasture; woods and forests covering 24,000,000 acres. The products of the soil cultivated in the largest quantities are rye and spelt, oats, potatoes, wheat, barley, maize, and pulse. As regards wine, the vineyards in 1885 yielded 83,018,700 gallons. The total value of wine in 1886 was 40,691,000 florins. The latter item, with barley, are the articles most largely exported, though in some years the export of wheat is considerable. Of the total amount of land available for cultivation in 1883, 52,800,000 acres were occupied with agriculture, including grass, meadows, and pasture; 1,062,500 being devoted to vineyards, and the remainder to woods and forests.

MINERALS, METALS, AND GENERAL INDUSTRIES.—The total number of persons engaged in mining and iron work in 1885 was 47,851, and in salt works 1972. In that year the values of leading minerals and furnace products yielded were as follows:—Common salt, 21,628,218 fl.; common coal, 22,652,500 fl.; pig iron, 20,548,400 fl.; brown coal, 19,253,080 fl.; lead and litharge, 7,735,046 fl.; silver ore, 3,193,200 fl.; iron, 2,174,140 fl.; lead, 943,705 fl.; quicksilver, 851,009 fl.; and graphite, 579,430 fl.

An official estimate, issued in 1884, of Austrian manufacturing industries in 1880 gave the value at £100,000,000 sterling. The total value of mining products in Hungary, raw and worked, in 1885 was 22,668,726 fl.

At the last census, 2,275,117 of the population of Austria were returned as farming their own lands, 90,036 as tenant farmers, and 3,739,421 as farm labourers. Thus 6,000,000 people were directly engaged in agriculture with their families, forming nearly 60 per cent. of the population of Austria. At the same period there were 1305 mining proprietors and 116,565 workers; 575,811 manufacturing proprietors and 1,541,287 workers; and 185,405 traders, with 124,688 assistants. In Hungary there were 1,451,707 farm proprietors, 23,393 tenant farmers, and 1,373,768 farm labourers, or over 2,720,000 people directly engaged in agriculture; 173 mining proprietors and 25,732 miners; 380,786 engaged in manufactures, with 385,630 workers; 97,300 engaged in trade, with 79,995 assistants.

EXPORTS, IMPORTS, AND SHIPPING.—The exports for 1886 were larger than in the two preceding years, being 698,632,273 fl. But the most recent import value in our possession is that of 1885, which amounted to 557,948,324 fl., these being the lowest figures for five years. The articles most extensively exported by the dual-monarchy are grain, pulse and flour, timber, sugar, instruments, watches, &c., wool and woollens, living animals, animal products, beverages (including wine), the latter in one year being exported to the value of 17,663,655 fl., and beer amounting to 5,526,000 fl.; there were also fruit, nuts and hops, leather and leather goods, glass and glassware, fuel, flax, hemp and other fibres, wood and bone ware, cotton and cotton goods, minerals, iron and iron goods, and tobacco. The imports consist of goods principally belonging to the same category, but of a different quality, for the most part, compared with those exported.

The largest amount of trade, both in exports and imports, done by Austro-Hungary was with Germany. After that country comes Italy, Switzerland, Roumania, and Russia. Transactions with England are insignificant, and chiefly comprise grain, flour, and barley. The principal imports of British produce into Austria are cotton manufactures (including yarn), iron, machinery, oil-seed, coals, and woollen goods.

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INTRODUCTION TO THE AUSTRO-HUNGARIAN COURT.

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REVENUE AND EXPENDITURE.—The monetary arrangements of the monarchy are of a somewhat complicated nature. There are three distinct budgets:—(1) That of the Delegations, for the whole monarchy; (2) that of the Reichsrath, for Austria; and (3) that of the Hungarian Diet, for the kingdom of Hungary. Austria is liable for 68·6 per cent. and Hungary for 31·4 per cent. towards the “common expenditure of the monarchy,” irrespective of the interest on the national debt. The expenditure for the united monarchy in 1887, as might be expected in the present uneasy condition of Europe, shows a tendency to increase, having risen in that year to 123,855,414 fl., against 116,078,000 fl. in 1883; and the estimates for 1888 represent a probable expenditure of 134,480,397 fl. The second budget, that for Austria proper, exhibits in five out of the ten years, 1877-87, heavy annual deficits. The revenue for 1886-7 was 507,833,841 fl., and the expenditure 516,625,771 fl. during the ten years referred to. The third budget, that of Hungary, is conspicuous for annual deficits throughout of a serious character, without a single exception; the Hungarian revenue for 1886-7 being 321,743,950 fl., and the expenditure 325,945,490 fl. In the Hungarian estimates for 1888 there appears an anticipated deficit of 18,395,121 fl. The total debt of the country, with Government paper added, on 1st January, 1887, was £178,078,511 3s. 8d. Subsequently to May, 1868, all loans have been contracted separately by Austria and Hungary. The deficits of Hungary began twenty years ago. The large special debt which has been created for the latter during that period has been principally employed in the purchase and construction of railways, the receipts of which, however, are far exceeded by the expenditure. In the beginning of 1886 the separate debt of Hungary amounted to £111,031,698, besides the share of that kingdom in the common debt of the monarchy, and arrears, &c., being in all 248,000,000 fl. The proportion of the debt to the total revenue is 37 per cent.

Jaenecke & Schneemann's Fine A3 Black Ink.

Sole Agents for Colonies: PFAFF, PINSCHOF & Co., Melbourne.

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AUSTRIAN EXHIBITS.

[All Exhibits under Section I. are transferred to the Fine Arts Section of the Catalogue, where they will be found under heading "AUSTRIA."]

II.

Education and Instruction.—Apparatus and Processes of the Liberal Arts.

Class 9.—Printing, Books.

- 1 Halauska, A., Hallein, Salzburg.—Specimens of typography, autographic proofs in black and colours.
- 2 Austro - Transmarine Trading Company.—Paper and stationery.
- 3 Ellissen, Roeder & Co., Theresienthaler Paper Factory.—Machine-made paper of all kinds.
- 4 Fuchs, I., Prague.—Paper and stationery.
- 5 Joint Stock Co. of the I. R. Pr. Paper Factory, Schläglmühl, Vienna.—Machine-made paper of all kinds, printing ditto.
- 6 Kink, M., & Co., Vienna.—Machine-made papers in white and colours.
- 7 Leykam Josefthal Joint Stock Co. Paper Factory, Vienna.—Specimens of machine-made paper.
- 8 Ringler, L., Vienna.—Inks and glues.

9 Schnabl, Jac., & Co., Vienna.—Cigarette papers in various qualities.

10 Schutz, C., Vienna.—Cigarette papers, &c.

11 Smith & Meynier, in Fiume, Hungary.—Paper made by machinery—letter, book, drawing, lithographic, cigarette, etc. Agents: Nason, Moser and Co., 263 George-st., Sydney.

12 Spiro & Sohne, I., Böhém, Krumau.—Various qualities of machine-made paper.

Class 13.—Musical Instruments.

- 13 Brunbaner, P., Vienna.—Metallic wind instruments with reeds.
- 14 Trapp, H., Neukerchen, near Eger.—Musical instruments.

Class 14.—Mathematical and Philosophical Instruments.

- 15 Florenz, I., Vienna.—Apparatus and instruments for measurements, scales for scientific uses.
- 16 Nemetz, J., Vienna.—Apparatus and instruments for scientific purposes.
- 17 Reichert, C., Vienna.—Optical, astronomical, and philosophical instruments.

III.

Furniture and Accessories.

Class 16.—Furniture.

- 18 Austro - Transmarine Trading Company.—Furniture.
- 19 Flaschner, F., Bodenbach-on-Elbe.—Austrian bent wood furniture. Agents: Ostermeyer, Dewez & Co., 131 Collins-street West, Melbourne.
- 20 Kohn, J. & J., Teschen and Vienna.—Austrian bent-wood furniture.
- 21 Thonet Geb., Vienna.—Austrian bent-wood furniture.

Class 22.—Bronzes and various Art Castings and Repoussé Work.

26 Mayr, F., Vienna.—Fancy bronze wares.

Class 24.—Perfumery.

- 27 Kielhauser, H., Graz, Styria.—Cosmetics and pomatums, toilet soaps, perfumed powders, oils, and scent bags.
- 28 Popp, I. G., Vienna.—Toilet soap, cosmetics and pomatums.

Class 25.—Leatherwork, Fancy Articles, and Basketwork.

- 29 Austro - Transmarine Trading Company, Vienna.—Leather goods.
- 30 Marizza & Co., Vienna.—Fans.
- 31 Muller, J., Vienna.—Fancy articles of turned wood, &c.; trays, &c.
- 32 Perstinger, J., Vienna.—Pipes and cigar-holders.

Class 20.—Cutlery.

- 24 Stubinger, J., Trattenbach.—Cutlery.
- 25 Weinert, J., Vienna.—Cutlery, &c.

AGENTS FOR THE COLONIES: PFAFF, PINSCHOF & CO., 13 FLINDERS LANE WEST, MELBOURNE

LEYKAM JOSEFSTHAL PAPER FACTORY.

AUSTRIAN EXHIBITS.

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- 33 Prag-Rudnick Basket Factory Co. of C. & J. Kraus, Vienna.—Fancy basketwork.
- 34 Redlhammer Geb., Gablonz, Bohemia.—Ornaments in jet and mother-o'-pearl.
- 35 Traub & Co., Vienna.—Fans.
- 36 Zeller, F., Vienna.—Fancy articles.

- Class 26.—Crystal, Glass, and Stained Glass.
- 37 Gurtler, I. I., & Soehne, Meistersdorf, Bohemia.—Table, stained, cut, drinking glasses, and hollow glass.
- 38 Harrach, Erlaucht, Count, Glass Factory, Neuville, Bohemia.—Hollow, table, stained, cut, and drinking glasses.
- 39 Kittel & Tamme, Laugenau, Bohemia.—Bohemian hollow glassware.
- 40 Moser, L., Carlsbad, Bohemia.—Bohemian fancy hollow glassware.
- 41 Pietschmann, F. T., Schaiba, Bohemia.—Bohemian hollow glassware.

- 42 Redlhammer Geb., Gablonz, Bohemia.—Glass buttons—imitation of diamonds, precious stones, &c.
- 43 Schreiber, I., & Neffen, Vienna.—Table glass, drinking glasses of crystal and in colours, &c.
- 44 Stelzig, Kittel & Co., Steinschonan, Bohemia.—Bohemian hollow glassware.
- 45 Stolzle, C., & Soehne, Vienna.—Table glass, siphons, &c.
- 46 Wagner, F., Ulrichsthal.—Glassware and fancy glass, combined with gilt bronze.
- 47 Zeckert, T., and Son, Meistersdorf, Bohemia.—Bohemian fancy hollow glassware.

- Class 27.—Pottery.
- 47a Austro-Transmarine Trading Company.—Pottery wares.
- 48 Stellmacher, A., Teplitz-Turn, Bohemia.—Porcelain and chinaware, in artistic style and finish.
- 49 Steidl, J., Vienna.—Terra-cotta, enamelled lava, and other glazed pottery.

V.

Textile Fabrics; Clothing, and Accessories.

- Class 29.—Thread and Fabrics of Flax, Hemp, Jute, &c.
- 50 Austro-Transmarine Trading Company.—Woollen goods in great variety.
- 51 Langer, N., & Sohne, Vienna.—Linen, cambric, and drill fabrics, tablecloth, and household linens.
- 52 Marburg, G., Freudenthal, Austrian Silesia.—Table, dress, and household linens.
- 53 Riedel & Schleser, Freiwaldau, Silesia.—Table and household linens.

- 67 Schoeller Geb., Brunn, Moravia.—Cloth and woollen fabrics.
- 68 Sorer, E. M., Brunn, Moravia.—Cloth and woollen fabrics.

Class 34.—Lace, Net, Embroidery, and Trimmings.

- 69 Central Committee for Promoting House Industries of Inhabitants of Bohemian Mountains.—Laces, &c.
- 70 Sixt, E., Vienna.—Embroideries done by hand.

Class 35.—Hosiery and Underclothing and Accessories of Clothing.

- 71 Austro-Transmarine Trading Company.—Underclothing in great variety.
- 72 Eichorn, F., Vienna.—Kid gloves.
- 73 Hampf, Joh., & Sohne, Schönlinde, Bohemia.—Woollen hosiery, underclothing for men, women, and children.
- 74 Werfel & Bohm, Prague.—Kid gloves.

Class 36.—Clothing for Both Sexes.

- 75 Austro-Transmarine Trading Company, Vienna.—Boots and shoes, buttons of various material.
- 76 Fraenkel, A., Modling, Vienna.—Boots and shoes.
- 77 Friedeckz, Jac., & Bruder, Vienna.—Boots and shoes. Agents: Molls Bros., 22 Flinders-lane West, Melbourne.
- 78 Grunbaum, H., Vienna.—Specialties in underclothing.
- 79 Hermann, D., Agram, Croatia.—Croatian native costumes and articles of house industry.
- 80 Hutterstrasser, M., Vienna.—Artificial flowers.
- 81 Joss & Lowenstein, Prague.—Linen shirting, collars, cuffs, hosiery.

AGENTS FOR THE COLONIES: PFAFF, PINSCHOF & CO., 13 FLINDERS LANE WEST, MELBOURNE.

- 82 Kalman Bethlen, Countess, at Nagy-Sclyk, Hungary.—Native costume of Transylvania, embroideries, crochet work, &c.
 83 Krausz & Lackenbacher, Vienna.—Boots and shoes for ladies and gentlemen.
 84 Lowenstein, A. R., Vienna.—Ladies' fancy shoes.
 85 Mandl, M. & I., Vienna.—Men's, boys', and children's clothing.
 86 Muller, L., Schönau, Bohemia.—Accessories for clothing, metal buttons.
 87 Pachter, A., Bodenbach-on-Elbe.—Vegetable ivory buttons.
 88 Peter's, F., Nachfolger, Vienna.—Linen shirts, collars, and cuffs.
 89 Traumann, H., Vienna.—Hand-made boots and shoes.
 90 Zweig, Frankfurter & Co., Graslitz, Bohemia.—Accessories for clothing, mother-of-pearl buttons.

- Class 37.—Jewellery and Precious Stones.
 91 Pick & Fleischner, Vienna.—Plated and imitation jewellery.
 92 Steiner & Kolliner, Prague.—Bohemian garnet jewellery.
- Class 39.—Travelling Apparatus and Camp-Equipage.
 93 Zeller, F., Vienna.—Trunks.
- Class 40.—Toys.
 94 Austro-Transmarine Trading Company.—Toys and fancy goods.
 95 Bergler, L., Vienna.—Toys in great variety.
 96 Frankl, F., Vienna.—Dolls and toys.

VI.

Raw and Manufactured Processes and Products.

Class 41.—Products of the Cultivation of Forests, and of the Trades appertaining thereto.

97 Vuk, M., & Sohne, Budapest.—Staves, in various sizes, for brewery and wine casks.

Class 43.—Agricultural Products not used for Food.

98 Sonnenschein & Landesmann, Prague.—Various qualities of hops. Agents for Australia: Messrs. A. Kaufmann & Son, Adelaide. Represented and on sale by Mathew Mitchell, 49 Flinders-lane West, Melbourne.

Class 44.—Chemical and Pharmaceutical Products.

99 Austro-Transmarine Trading Company.—Mineral waters.

100 Blass, S. D., Lemberg, Galicia.—Rice and potato starch; various coating substances.

- 101 Grunwald, J., Vienna.—Polishes in powders.
 102 Hirschler, M., Budapest.—Products of the Francis Joseph Bitterquelle mineral waters.
 103 Hoefel, M., Kufstein, Tyrol.—Chemicals.
 104 Kiwizda, F. J., Kornuenburg, near Vienna.—Patent medicine specialty.
 105 Kronsteiner, K., Vienna.—Lime and cement colours, for the coating of houses, fences, &c.
 106 Neruda, F., Budapest.—Chemicals and pharmaceutical products.
 107 Richter, F., Pilsen, Bohemia.—Various products of chemistry.
 108 Rossner, E., Lower Austria.—Model of the bath of Salzberbad-Kleinzell, with mineral water from the springs.
 109 Sarg Son, F. A., & Co., Vienna.—Chemical products—soaps, candles, resins, tar, wax, &c.
 110 Wilhelm, F., & Co., Vienna.—Drugs and chemicals.

VII.

Apparatus and Processes used in the Mechanical Industries.

Class 48.—Apparatus and Processes used in Agricultural Works, and in Works for the Preparation of Food, Irrigation of Land, &c.

110a Ganz & Co. Ltd., Budapest, Hungary.—Roller flour mills, purifying machinery, etc.

111 Wannieck, F., Brunn, Moravia.—Apparatus for sugar factories and refineries.

Class 58.—Machines, Instruments, and Processes used in various Works.

112 Kreczy, T., Brunn, Moravia.—Various filter materials of wool and hair.

Class 61.—Railway Apparatus.

112a Ganz & Co. Ltd., Budapest, Hungary.—Chilled cast-iron railway wheels.

Class 62.—Electric, Pneumatic, and other Apparatus and Processes.

113 Deckert & Homolka, Vienna.—Apparatus for electric telegraphs, bells, and signals; pneumatic telephones.

VIII.

Alimentary Products.

Class 66.—Cereals, Farinaceous Products, and Products derived from them.

114 Basch, L. A., & Sohne, Boskowitz, Moravia.—Malt in three colours, for Pilsen, Vienna, and Bavarian beer.

115 Hanna Malt Factory Co., Kremsier, Moravia.—Specimens of malt.

116 Hauser & Sobotka, Stadlau, near Vienna.—Specimens of malt.

117 Weisz & Co., H., Vienna.—Hungarian maize.

Manufacturers of Hungarian Maizena. This Hungarian Maizena is prepared from the best Hungarian Maize, warranted pure and free of all adulteration.

TRADE

MARK.



Sole Agents : **PRAFF, PINSCHEF & Co., HAMBURG**, Melbourne, Sydney, Adelaide, & Brisbane.

Class 71.—Condiments and Stimulants, Sugar and Confectionery.

118 Baumer, F., Perchtoldsdorf, Vienna.—Preserved fruits and jellies in glass bottles.

Class 72.—Fermented and Distilled Drinks.

119 Dreher, A., Seewehat, Vienna.—Beer, in bottles and casks.

120 Flandorffer, I., Oedenburg, Hungary.—Hungarian wines, in bottles.

121 Gessler, S., Jägerndorf, Austrian Silesia.—Alcoholic spirits and liqueurs, Altvater herb-liqueur.

122 Kleinosehag Geb., Graz, Styria.—Styrian sparkling and still wines.

122a Krause, L., Fünfkirchen, Ungarn.—Punch, beer, etc.

123 Luxardo, G., Zara, Dalmatia.—Fine liqueurs—Maraschino Excelsior, in bottles.

124 Mossmer, A., Retz, Lower Austria.—Austrian red and white wines, in bottles.

125 Pruckler, I., Budapest.—Hungarian sparkling wines.

126 Romer, I., & Sohn, Vienna.—Austrian wines, in bottles.

127 Schnabl, M., Brunn, Moravia.—Fine liqueurs, "Lebenswecker."

128 Schuth, W., Villany, Hungary.—Wines, in bottles, from the Archduke Albrecht vineyards.

129 Weil, C., Döbling, Vienna.—Wines, in bottles.

130 Weiner, L., Dobruschka, Bohemia.—Various liqueurs.

IX.

Sanitation, Medicine, Hygiene, and Public Relief.

Class 73.—Sanitary Appliances, Surgical Instruments, Plans, Models, &c.

131 Odelga, I., Vienna.—Surgical instruments.

Class 74.—Apparatus and Processes for Heating and Lighting.

131a Ganz & Co. Ltd., Budapest, Hungary.—Complete electric-light installation with incandescent and arc lights combined.

132 Helm, H., Vienna.—Stoves and fireplaces, ventilating apparatus.

133 Siemens, F., Vienna.—Apparatus and accessory objects for lighting with gas.

XII.

Mining Industries—Machinery and Products.

Class 83.—Mining and Metallurgy.

134 Gecmen, Vincenz, Prague.—Hardware.

135 Grullemeyer, J., Vienna.—Hardware and bronzes.

136 Heim, H., Vienna.—Hardware.

137 Hombok & Marienthal Industry Association, Hombok, Moravia.—Hardware; nails for saddlers and shoemakers.

138 Kolb, F. A., & Kerl Erben, Platten, nr. Carlsbad.—Hardware, brass spoons and forks.

INTRODUCTION TO THE ITALIAN COURT.

It is to be regretted that Italy is not officially represented at the present Exhibition, but, as has happened with some other countries favourably disposed towards Australia, and which have been unavoidably prevented from officially contributing exhibits, their governments have felt compelled to make a selection out of the exceptionally large number of international shows which in the present year compete for their patronage and co-operation. In London an exclusively Italian Exhibition is being held, to which a large number of exhibits have been promised, including illustrations of Roman life in classic times, and displays of every branch of Italian fine arts, industries, national sports and pastimes. Genoa is holding an International Exhibition of flowers and fruit, including elaborate illustrations of floricultural and horticultural arts. At Bologna, which boasts of being the most musical city in the world, and was long the residence of Rossini, an International Exhibition of music and musical instruments—historical, artistic, and industrial—will be held in the latter part of the year. The latter Exhibition is intended to celebrate the eighth centenary of the University of Bologna; and to crown exhibition undertakings of a distinctly Italian character, the jubilee gifts to the Pope of Rome, valued at millions sterling, are to be open for public inspection at the Vatican. Austria, a neighbour of Italy, also is holding in Vienna a National Exhibition of Austrian industry, and an International Collection of pictures, statuary, and other *objets d'art*. Munich has arranged for a National Exhibition of German industry, and an International Art Exhibition, in 1888; and Berlin has invited contributions to an International Sportsman's Exhibition, which is expected to prove one of the attractions of the German capital during the year. The Russian Society for the Encouragement of Trade and Industry promises an Exhibition of Russian textiles and machinery at Warsaw in the autumn. An International Show of great magnitude is also in progress at Barcelona, which cannot fail to divert exhibits not only from Italy, but from other parts of Europe, which would have found their way to Melbourne. Similar displays taking place in Glasgow, Brussels, and Copenhagen at the present time are certain to have a corresponding effect; and yet the success of the centennial celebration in Melbourne is so complete as to surpass the most sanguine anticipations which had been formed of it.

AREA AND OCCUPATIONS.—A recent estimate of the area of the Kingdom of Italy gives it at 114,410 square miles, the total estimated population being 29,943,607 in 1886. The census of 1881 showed the resident or legal population to be 28,953,480. The surplus of births over deaths was considerably smaller in 1886 referred to than for many years previously, while emigration continues on a large scale, ranging between 119,901 in 1880 and 167,829 in the former year. In 1886, as usual, the great bulk of the emigrants went to the Argentine Confederation, and 28,440 to the United States and Canada. Agriculture employed 8,173,382 persons, 5,124,431 being males, and 3,048,951 being females; 4,185,461 were occupied in industrial productions. "Proprietors and pensioners" are given at 962,881, *employés* and domestics at 713,405; 4,725,681, or one-seventh of the population, are designated as "without occupation," and 1,580,975 are described as being of "no occupation stated."

Of the total area of Italy, 86·9 per cent. is productive, and 13·1 per cent. unproductive; 12 per cent. is under forest, and 36 per cent. under culture. Of the area under crops, which is about 28,000,000 acres, nearly one-half (12,000,000 acres) is under wheat, the average yield being 140,000,000 bushels. Nevertheless, the import of wheat and of other kinds of grain is generally greater than the export. Vineyards occupy about 5,000,000 acres, and olive-groves about 2,200,000 acres. Chestnuts cover about 1,100,000 acres. The average yield of wine is 772,877,000 gallons, Italy standing next to France in the quantity produced. Figs, dates, and melons are also largely grown.

The staple articles cultivated are silk (raw and manufactured), olive oil, wine, fruit, hemp, and flax. The citron of commerce is largely raised in Corsica, Sicily, and Calabria. That crop in the first-named of these localities sometimes amounts to 5,510,000 lbs. Where the soil is adapted, and the culture receives due care, 6231 citrons are occasionally grown to the acre. The fruit is first put in a salt pickle, in which it is allowed to lie for three months. The next process consists of dividing it into halves and quarters, and packing it in sugar syrup. The syrup when first used is weak, but its strength is generally increased by additions. Four weeks is the ordinary period during which the fruit remains in sugar, after which it is ready for market. Nine large factories exist in Leghorn alone for candying purposes, employing 300 hands. This is an industry which might with advantage be introduced into suitable parts of Australia.

EXPORTS AND IMPORTS.—The largest value in exports is consigned to France and Algeria, which received in 1886 Italian produce worth 478,079 lire. Germany comes next, receiving a value of 108,074 lire, and immediately following, Austria, to which are exported goods to the value of 100,356 lire. The principal article of export to Great Britain in 1886 was olive oil, of the value of £481,188, which ought to be produced in Australia. The total average product is 75,580,000 gallons. Hemp of the value of £350,693 was also sent to British ports, with oranges and lemons of the value of £228,208; sulphur, £146,171; chemical products, £157,869; shumac, £164,166; almonds, £81,699; and wine, £101,488. Next to wine in casks an important article of general export is fresh fruit, which is sent to various countries to the value of 36,764,590 lire. Eggs and rice from Italy also find ready markets abroad, and represent the values respectively of 29,253,250 lire and 24,110,640 lire.

The largest item among the imports is grain, valued at 191,927,765 lire; after which rank raw cotton at 74,793,730 lire, and coal, 67,323,116 lire. Among other heavy items are timber for building; bleached, unbleached, raw, and twisted silk; raw and manufactured wool; machinery; and fish.

MINING.—Iron is found to a large extent in Sardinia, Elba, and Lombardy, being partly worked in Italy and partly exported. The yield of these mines in 1885 was 200,955 tons, valued at 2,125,286 lire; 107,887 tons zinc were produced, valued at 6,659,140 lire; copper, 27,236 tons, valued at 1,585,256 lire; lead, 40,134 tons, valued at 5,775,900 lire; silver, 1,485 tons, valued at 1,962,290 lire. The total value of iron and steel produced in Italy is 30,000,000 lire. Official examination has verified the existence of 8,000,000 tons of iron in the island of Elba. One or two gold mines have long been worked, but not with satisfactory results. Sulphur is the chief mineral product. In the marble quarries of Italy about 20,000 men are employed, and the annual output is a million sterling. In 1885 the number of hands engaged in all mines (excluding quarries) was 51,798, and the total value of the output 56,980,000 lire.

SILK INDUSTRY.—So extensive is the silk industry that as far back as 1878 there were 2080 silk factories in Italy, employing 15,992 men, 120,226 women, and 76,384 children, producing over 5,000,000 lbs. of raw silk. The total weight of the cocoon harvest in 1886 was 91,000,000 lbs., against 70,985,000 lbs. in 1885.

PUBLIC REVENUE AND EXPENDITURE.—In the three years ending June, 1887, there was a substantial surplus; but in the official budget for 1887-8 the total revenue is estimated at £64,537,282, and the total expenditure £66,569,146, leaving a deficit of £2,031,864.

This Catalogue is Printed with

ITALIAN EXHIBITS.

[All Exhibits under Section I. are transferred to the Fine Arts Section of the Catalogue, where they will be found under heading "ITALY."]

II.

Education and Instruction—Apparatus and Processes of the Liberal Arts.

CLASS 6.—EDUCATION OF CHILDREN, PRIMARY INSTRUCTION, INSTRUCTION OF ADULTS.

- 1 Bostone, G., Capri.—Books on education.
2 Provini, S. R., Pavia.—Specimens of calligraphy.

CLASS 10.—STATIONERY, BOOKBINDING, PAINTING, AND DRAWING MATERIALS.

- 3 Bindia, Ambrogio & Co., Milan.—Paper of every description. Paper mills, envelope and card-board manufactory. Two large factories; water and steam power, 600 horse; 1500 hands employed. Yearly production, 3000 tons of paper and 100,000,000 envelopes. Prizes awarded at the principal International Exhibitions for printing and writing paper; fine, fancy, and Anglo-American tub-sized paper; Bristol boards, etc., etc. Agents for Australia: J. Frossard and Co., Sydney.

CLASS 11.—GENERAL APPLICATION OF THE ART OF DRAWING AND MODELLING.

- 4 Bracchi, A., Cremona.—Embossed sign-boards.
4a Campi, E., Rome.—Cameos.
5 Francati & Santamaria, Rome.—Cameos.

CLASS 12.—PHOTOGRAPHIC PROOFS AND APPARATUS.

- 6 Taglioferri, A. G., Rome.—Photographs.

CLASS 13.—MUSICAL INSTRUMENTS.

- 6a Kisslinger, G. A., Naples.—Musical strings.

III.

Furniture and Accessories.

CLASS 16.—FURNITURE.

- 7 Campi, J. B., Milan.—Walnut furniture.
7a Materozzoli, R., & Co., Florence.—Artistic furniture.

CLASS 21.—GOLDSMITHS' AND SILVERSMITHS' WORK.

- 8 Moreno, Cesare, Genoa.—Ceramic figures.
8a Rizzo, A., 122 Russell-st., Melbourne.—Goldsmiths' and silversmiths' work.

CLASS 22.—BRONZES AND VARIOUS ART CASTINGS AND REPOUSSE WORK.

- 9 Sarti, G., Bolonga.—Bronzes, etc.

CLASS 25.—LEATHERWORK, FANCY ARTICLES, AND BASKETWORK.

- 10 Boncinelli, G., & Figli, Florence.—Mosaic tables, photographic frames, etc.

11 Gargulia Fils, Naples.—Coral, woodwork.

12 Heinzelmann, J. H.—Brooms.

These Brooms are the very finest imported, and command a large and ready sale in the colonies, owing to their superior finish, excellent quality, and great durability.

The articles in the collection were not specially prepared for the Exhibition, but are selections taken from stock as samples of the style and finish of the goods supplied by the firm.

SOLE AGENTS:

PFAFF, PINSCHOF & CO.,
HAMBURG, Melbourne, Sydney, Adelaide, and
Brisbane.

13 Marchini, C., Firsole.—Fancy articles made of straw, straw-work.

Sole Agents for Colonies : PFAFF, PINSCHOF & Co., Melbourne.

IV.

Fictile Manufactures—Glass, Pottery, &c.

CLASS 26.—CRYSTAL, GLASS, AND STAINED GLASS.

14 Martini, A., Venice.—Glassware.

CLASS 27.—POTTERY.

15 Gargulia Fils, Naples.—Terracotta, etc.

16 Martini, A., Venice.—Pottery, terracotta, etc.

17 Moreno, C., Genoa.—Busts, statues, vases, and other objects of ceramic work.

18 Tadolini, D., and Co., Florence.—Artistic ceramic goods.

V.

Textile Fabrics, Clothing, and Accessories.

CLASS 36.—CLOTHING FOR BOTH SEXES.

19 Manetti, A. C., Cerni.—Boots.

20 Memmi, Octave, Sienne.—Boots.

CLASS 37.—JEWELLERY AND PRECIOUS STONES.

21 Assisi, P., Naples.—Coral and lava of Vesuvius.

22 Boncinelli, G., & Figli, Florence.—Jewellery inlaid with precious stones.

23 Francati & Santamaría, Rome.—Etruscan jewellery.

23a Gargulia Fils, Naples.—Coral.

VI.

Raw and Manufactured Processes and Products.

CLASS 44.—CHEMICAL AND PHARMACEUTICAL PRODUCTS.

24 Rossi, Domenico, Genoa.—Scented soaps, etc.

VII.

Machinery—Apparatus and Processes Used in the Mechanical Industries.

CLASS 48.—APPARATUS AND PROCESSES USED IN AGRICULTURAL WORKS AND IN WORKS FOR THE PREPARATION OF FOOD, IRRIGATION OF LAND, ETC.

25 Lezza, S. M., Mola.—Confectioners' machinery, machinery for stamping soap, etc.

VIII.

Alimentary Products.

CLASS 66.—CEREALS, FARINACEOUS PRODUCTS, AND PRODUCTS DERIVED FROM THEM.

26 Di Cola, Giovanni, Termini, Imerese.—Alimentary pastes.

CLASS 68.—FATTY SUBSTANCES USED AS FOOD, MILK AND EGGS.

27 Cinotti, A., Siena.—Olive oil.
28 Ferrari, F., Port Maurice.—Olive oils.

CLASS 69.—MEAT AND FISH.

28a Campi, A. & A., Bolonga.—Sausages.

CLASS 72.—FERMENTED AND DISTILLED DRINKS.

29 Calcagno, Cav. A. E., Genoa.—Wines.
30 Cinotti, A., Siena.—Wine.
31 Comini, E., Pavia.—Wines.
32 De Sena, Elia, Naples.—Wines and liqueurs.

INTRODUCTION TO THE BELGIAN COURT.

In view of its limited territorial area, taken in connection with its numerous and enterprising population, the compact kingdom of Belgium may fairly be accounted the most populous in the civilised world. At the close of 1886 its nine provinces, covering 11,373 square miles, numbered 5,909,975 inhabitants. When it is remembered how wide-reaching is its reputation as a centre of iron and steel industries, it is difficult to realise that Belgium is only about equal in size to the four English counties of Hertford, Lancashire, York, and Lincoln collectively. By the River Meuse and its tributary, the Sambre, it is divided into two distinct regions, the western being generally level and fertile, while the tableland of the Ardennes, in the East, is known to have but a poor soil. The annual increase of the country in population is 1·6 per cent., which is due chiefly to births, since the immigration and emigration almost counterbalance each other. Females exceed males by 2 per 1000, and Brussels, the capital, exceeds Melbourne, numerically, by about 49,000 inhabitants. The density of population for the whole of Belgium in 1886 was 520 per square mile, although in Brabant the density was as high as 847 per square mile. The proportion of males and females engaged in professions and official occupations, according to the latest census returns, was 649,156, against 406,899 in mixed industries, 244,308 in metal and mining industries, 236,744 in industries connected with vegetable products, and 64,996 in those connected with animal products, and 244,247 in commerce.

AGRICULTURE, MANUFACTURES, AND COMMERCE.—The Belgians are essentially a manufacturing people. Although agriculture is carried on by them with persistent energy, as in some other small countries of exceptional manufacturing fame, they are greatly dependent on foreign countries for their food supplies. The soil was found, a few years since, to be divided among 1,164,874 proprietors. Of the total area, 58 per cent. is under cultivation, 13 per cent. consists of meadows and pastures, and 17 per cent. of forest. Rye, wheat, oats, potatoes, turnips, green crops, flax, and beetroot are the staple crops cultivated. According to the recently-published results of an agricultural inquiry, 2,704,952 hectares out of 2,945,715 hectares were cultivateable. Of this land, 1,983,750 hectares were under ordinary cultivation, 489,423 hectares under wood, and only 231,964 hectares uncultivated. The number of separate farms was 910,396, as compared with 744,000 fourteen years and 579,550 thirty-four years previously. More than 710,000 of the farms were under two hectares each, a hectare being equal to 2·47 acres. Beetroot culture forms an important industry, the export of sugar derived from that vegetable in 1885 being 53,000 tons more than the import. The latest obtainable estimate of stock owned in the country gives the number of horses at 271,974, horned cattle at 1,382,815, sheep at 365,400, and pigs at 646,375.

Coal and iron constitute leading sources of profit. Mines containing the former material, 283 in number, covered, in 1885, an area of about 289,000 acres, employing 103,095 miners, who produced in that year 17,437,603 metric tons, of the value of 154,618,000 francs. Of this total one-fourth was exported, chiefly to France. In 1886 the output receded to 17,253,144 tons. Of pig and wrought iron, 1,182,125 tons were produced in 1885 and 1,167,132 tons in 1886, exclusive of the output of foundries, which probably average 80,000 tons per annum; 280,473 tons of steel were manufactured in 1885, and the produce of quarries for the same year was valued at 32,746,000 francs. The deep-sea fishery for the period was 3,603,326 francs.

The commerce of the country in 1886 amounted to 2,662,715,851 francs in imports, and 2,512,122,555 francs in exports. The prominent items in the former category were cereals, raw textile materials, and vegetable substances. In the latter category threads, raw textile materials, and hides take the lead. Both in imports and exports France represents by far the largest values. Next to her the countries from which Belgium draws her imports, in the order of their importance, are the Netherlands, Great Britain, the United States, and Germany. Coming after France, among countries to which Belgium sends her exports, are England, Germany, the Netherlands, the United States, and Italy. The fact is interesting from an Australian point of view, that England recently paid Belgium more for eggs than for iron, the value of the former being no less in a single year than £657,756, and that country is but one of several foreign sources from which the United Kingdom obtained that article of food. Why should it be considered Utopian to anticipate a time when Australia will contribute to the supply of the United Kingdom eggs as well as dairy produce? The maritime international commerce of the kingdom is almost entirely carried on by foreigners, principally under the British flag.

The public revenue for 1887 was £12,815,997, and the expenditure £12,566,000. But a glance at the ordinary budgets of late years will show the occurrence of almost constant deficits. On the adjusted ordinary budget of 1885 there was a surplus of 457,875 francs; but, on the other hand, there was an extraordinary estimated expenditure of 44,974,750 francs, compared with an extraordinary revenue of only 6,159,884 francs. The adjusted business for 1886, though expected to show a surplus, resulted in an actual deficit. If the various annuities for which the Belgian exchequer is liable were capitalised and added to the amounts borrowed by the State, the total debt of the country would amount to £100,000,000. But it is satisfactory to note that almost the entire debt was raised expressly for the purpose of being devoted to works of public utility, especially the construction of State railways.

Jaenecke Bros. & Fr. Schneemann,

BELGIAN EXHIBITS.

[All Exhibits under Section I. are transferred to the Fine Arts Section of the Catalogue, where they will be found under heading "BELGIUM."]

II.

Education and Instruction—Apparatus and Processes of the Liberal Arts.

CLASS 6.—EDUCATION OF CHILDREN, PRIMARY INSTRUCTION, INSTRUCTION OF ADULTS.

- 1 Arens, A. (Frère Marianus), Provincial des Frères des Ecoles Chrétiniennes à Alst.—Arithmetic—Complete course of writing and reading.
- 2 Doyen, E., Instituteur en Chef, Beauvechlain.—Ball-counter, with moveable balls, etc.

CLASS 8.—ORGANISATION, METHODS, AND APPLIANCES FOR SUPERIOR INSTRUCTION.

- 3 Frere, Marianus, Alst.—Arithmomètre—complete course of writing exercises for mental and written arithmetic.
- 4 Superior School of Commerce, Antwerp.—System of education, standard books, and records.

CLASS 9.—PRINTING, BOOKS.

- 5 Geelhand-Kervyn, A., Conseiller-Provincial, Antwerp, Commissioner-General for the Government at the Exhibition.—Various publications.
- 6 Lancman, Chef de Bureau at the Ministry for Foreign Affairs, Brussels.—Table of the commerce and trade of Belgium.
- 7 Manceaux, H., 4 Rue des Fripiers, Mons.—Works published by the exhibitor.

CLASS 10.—STATIONERY, BOOKBINDING, PAINTING, AND DRAWING MATERIALS.

- 8 Hebert, T., & Co., Brussels.—Letter files, etc., Agents: Balfour, Elliott & Co. Limited, 5 Queen-street.
- 9 Hemeleers, A. E., 235 Rue des Palais, Brussels.—Playing cards.

CLASS 13.—MUSICAL INSTRUMENTS.

- 10 Lenecant, P., 82 Boul. des Capucins, Malines.—Musical instruments.

III.

Furniture and Accessories.

CLASS 16.—FURNITURE.

- 11 Arens, A., 19 Rue des Nerviens, Antwerp.—Pedestal, bench, and chair.
- 12 Cambier Freres, Ath.—Carved oak sideboard, bent-wood and other chairs.
- 13 Gilbert, A., & Co., Chaussee d'Anvers, Brussels.—Household and other utensils.
- 14 Huubers-Séveryns, H., 23 Rue des Vaneau, Antwerp.—Black chairs trimmed with red plush.
- 15 Van Halle, Vve. J., Antwerp.—Carved oak sideboard, table, etc.
- 16 Zech, H. Pre & Oies, Malines.—Carved side-board—style, Henry II.
- 17 Zech, A., Brussels.—Domestic novelties.

CLASS 21.—GOLDSMITHS' AND SILVERSMITHS' WORK.

- 18 Dusseldorf, M. H., and Zoon, Brussels.—Jewellery and diamonds, etc.
- 19 Wilmotte, J. (Fils), 112 Boul. de la Sauvenière, Liège.—Religious ornaments, etc.

CLASS 22.—BRONZES AND VARIOUS ART CASTINGS AND REPOUSSE WORK.

- 20 Arens, A., Antwerp.—Brass and repoussé ornaments.
- 21 Pilate, P., 17 Rue du Marché, Brussels.—Bronze chandeliers.
- 22 Willmott Freres, Liège, Belgium.—Church artistic copper and brass furnishings and mountings.

CLASS 23.—CLOCKS AND WATCHES.

- 23 Branburger, J., 53 Rue de Suède, Brussels.—Clocks and pieces of clocks in marble, ornaments, marble inkstand with movement.
- 24 Pilate, P., 17 Rue du Marché, Brussels.—Decorations for chimney-pieces, watches, etc.

CLASS 25.—LEATHERWORK, FANCY ARTICLES, AND BASKETWORK.

- 25 Debrus-Leclairc, Veuve, Rue Hôtel de Ville, Spa.—Articles made from Spa wood.

Sole Agents for Colonies : PFAFF, PINSCHOF & Co., Melbourne.

IV.

Fictile Manufactures—Glass, Pottery, &c.

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| CLASS 26.—CRYSTAL, GLASS, AND STAINED GLASS. | 31 Societe Anonyme des Verreries de Gosselies, Gosselies, Courcelles. —Window glass, in sheets of different sizes. |
| 26 Agence Generale des Glaceries Belges, Brussels. —Plate-glass, mirrors, etc.
Agents: Jules Renard and Co., 133 Collins-st. West, Melbourne. | 32 Societe Anonyme de Verreries de Charlois à Gilly. —Window and fancy glass. |
| 27 Lambert, L., and Co., Jumet. —Window and fancy glass. | 33 Societe Anonyme des Verreries de Jumet, Jumet. —White window and other kinds of glass. |
| 28 Mondron, L., Lodelinsart, Belgium. —Window and fancy glass. | CLASS 27.—POTTERY. |
| 29 Societe Anonyme des Verreries de Gosselies, Belgium. —Window and fancy glass. | 34 De Fuisseaux, F., Baudour, Belgium. —Porcelain, dinner sets, etc. |
| 30 Societe Anonyme des Glaces de Mous-tier sur Sambre. —Bevelled oval glass, silvered and engraved, with frame. | 35 Societe Anonyme pour la Fabrication des Fayences Fines, Maestricht. —Table crockery, dinner and breakfast sets, etc. |

V.

Textile Fabrics, Clothing, and Accessories.

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| CLASS 29.—THREAD AND FABRICS OF FLAX, HEMP, JUTE, &c. | 46 Gillemont-De Cock, A., 36 Rue Sud du Sablon, Bruges.—Hand lace-work, lace made of linen, cotton, and silk. |
| 36 Ruy, A., 24 Rue Fosse aux Loups, Brussels. —Linen for table cloths, shirts, etc.; rusias, dowlas. Represented by Robert Reid and Co., Melbourne. | 47 Hauterive, Adele, Menin. —Lace-work made by spindle and needle, dresses, neckerchiefs, handkerchiefs, and trimmings, bands of all kinds. |
| 37 Darimond, L. et H., Freres, Verviers. —Woollen stuffs. | 48 Institute for Help of Destitute Women, Antwerp. —Embroidery, etc. |
| 38 Oudin, A., et Cie., Dinant. —Woollen materials, merinos, and cashmere patterns. | 49 Koch, J., 26 Rue du Canal, Brussels. —Hand-kerchiefs and other embroidered articles. |
| CLASS 30.—WORSTED YARN AND FABRICS. | 50 Thiroux et Fils, 10 Rue des Boiteaux, Brussels.—Laces trimmings, etc., for ladies' dresses. |

CLASS 31.—WOOLLEN FABRICS.

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| 39 Aubin Sauvy & Co., Enswiel. —Woollens, tweeds, etc. | CLASS 35.—HOSIERY AND UNDERCLOTHING, AND ACCESSORIES OF CLOTHING. |
| 40 Societe Anonyme de Loth, Brussels. —Cachemires, merinos, etc. Depôt: 133 Collins-st. West. | 51 Loutrel Freres, 4 Rue de Lirondelles, Brussels.—Corsets de luxe. |
| 41 Societe Anonyme La Dinantaise. —Merinos and cachemires. | 52 Thiroux et Fils, 10 Rue des Boiteaux, Brussels.—Buttons, ladies' fringes, and ornaments. |

CLASS 33.—SHAWLS.

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| 42 Oudin, A., et Cie., Dinant. —Merino and cashmere shawls. | 53 Societe de Charite, "Poor Women's Home," Antwerp. —Hosiery and accessories of clothing. |
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CLASS 34.—LACE, NET, EMBROIDERY, AND TRIMMINGS.

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| 43 Berbigette de Wit, 36 and 37 Place Verte, Antwerp.—Hand embroidery, lace work, etc. | CLASS 36.—CLOTHING FOR BOTH SEXES. |
| 44 Buchholtz, A. W., and Co., Brussels. —Brussels lace, curtains, shawls, and other artistic products. | 54 Boddaert, T., Rue des Freres, Ostend. —Sea boots. |
| 45 Declercq, C., Iseghem. —Lace work, made by hand-twisted, dyed, and bleached thread, etc. | 55 Societe de Charite, "Poor Women's Home," Antwerp. —Underclothing for both sexes. |

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| CLASS 37.—JEWELLERY AND PRECIOUS STONES. | CLASS 38.—PORTABLE WEAPONS, AND HUNTING AND SHOOTING EQUIPMENTS. |
| 56 Hony, C., 108A, Boul. du Hainaut, Brussels. —Jewellery. | 57 Lemaire, Allendor et Cie, 35 Rue Petit Gurevroy, Mons.—Bird traps, fishing nets, etc. |

VI.**Raw and Manufactured Processes and Products.****CLASS 43.—AGRICULTURAL PRODUCTS NOT USED FOR FOOD.**

58 Grewel, C., 31 and 33 Rue Courcience, Antwerp.—Cigars.

59 Hoebeke, Freres, Pamvels et Cie, Graumont.—Cigars.

60 Tinchant Freres, 17 Rue Breydell, Antwerp.—Havana and Mexican cigars.

CLASS 44.—CHEMICAL AND PHARMACEUTICAL PRODUCTS.

61 Buss, P., 37 Rue du Nord, Ghent.—“Cullodian Podophile,” preparation for removing corns.

62 David et Debouche, Moustier-sur-Sambre.—“Phenix,” preparation for preventing scab in sheep.

63 Manufacture Royale des Bougies de la Cour, Chaussee de Mons, Cureghem, and Brussels.—Candles.

CLASS 46.—LEATHER AND SKINS.

64 Bertin, H., 21 Rue de Russie, Brussels.—Leather, patent leather, etc., the result of a new process of tanning.

65 Carlier, A., et Cie, 10 Rue des Grands Carmes, Brussels.—Varnished skins.

VII.**Machinery—Apparatus and Processes used in the Mechanical Industries.****CLASS 59.—CARRIAGES AND WHEELWRIGHTS' WORK.**

66 Carbier, A., et Cie, Rue des Grands Carmes, Brussels.—Carriage covers and hoods.

CLASS 61.—RAILWAY APPARATUS.

67 “La Metallurgique,” Societe Anonyme de Construction, 1 Place de Louvain, Brussels.—Materials for railways, tramways, &c.

CLASS 62.—ELECTRIC, PNEUMATIC, AND OTHER APPARATUS AND PROCESSES.

68 Fuisseaux, de, F., Baudour, Belgium.—Insulators and other appliances for telegraphy.

CLASS 63.—APPARATUS AND PROCESSES OF CIVIL ENGINEERING, PUBLIC WORKS, AND ARCHITECTURE.

69 Denis, Victor, Boulevard, Bisschoppesheim, Brussels.—Mantelpieces in marble.

70 Dufossez and Henry, Compestu, Belgium.—Portland cement, in barrels.

Agents: Jules Renard and Co., 133 Collins-st. West.

71 Dubay-Grosjean, T., et Fils, Isnes-lez-Golzinnes.—Marble slab, flooring, polished pavement.

72 Fieve (Gue.) et Cie, 12 Boul. Lousberg, Ghent.—Encrusted squares in cement.

73 “La Metallique,” Societe Anonyme de Construction, 1 Place de Louvain, Brussels.—Materials for bridges.

74 Man, de, J., Antwerp.—Portland cement, in cask; tubes, etc.

75 Societe Anonyme de la Fabrique de Boulons de la Blanchisserie, Marchinelle.—Bolts, cramps, rivets, etc.

76 Societe Anonyme de Merbes le Chateau, Belgium.—Mantelpieces; marble, in block and slabs; colonnettes, etc.

Agents: Jules Renard and Co., 133 Collins-st. West.

VIII.**Alimentary Products.****CLASS 67.—BREAD AND PASTRY.**

77 Willems-Pickery, E., 15 Marché aux Oeufs, Bruges.—Biscuits.

CLASS 68.—FATTY SUBSTANCES USED AS FOOD. MILK AND EGGS.

78 Schmoele, F., et Cie, 15 Rue Belliard, Antwerp.—Extract of meat and solid meat.

CLASS 69.—MEAT AND FISH.

79 Schmoele, W. F., and Co., Antwerp, Belgium.—Preparation of extract of beef, originally produced by “Cibils,” of Buenos Ayres. Agents: Jules Renard and Co., 133 Collins-st. West.

CLASS 70.—VEGETABLES AND FRUIT.

80 Notermans, J., et Cie, Hasselt.—Cherries preserved in brandy.

CLASS 71.—CONDIMENTS AND STIMULANTS,
SUGAR AND CONFECTIONERY.

81 Joncheere-Lobelle, Roulers.—Chicory—seeds, roots, powder, packets, and husk.

82 Benkelaer, F. X. de, 24 Courte Rue de l'Hôpital, Antwerp.—Fruit syrups, and fruit preserved in pure sugar.

CLASS 72.—FERMENTED AND DISTILLED DRINKS.

83 Benkelaer, F. X. de, 24 Courte Rue de l'Hôpital, Antwerp.—“Elixir d'Auvers,” a medicinal liqueur.

84 D'Hoedt-Caurne, J., Place Simon Stévin, Bruges.—Beers, maits.

85 Grande Brasserie de Kockelberg 13 Avenue de la Liberté, Kockelberg, Brussels.—Bottled beers.

86 Meens, Jan, Antwerp.—Exhibit.

87 Notermans, J., et Cie, Hasselt.—Gin, brandy.

IX.

Sanitation, Medicine, Hygiene, and Public Relief.

CLASS 73.—SANITARY APPLIANCES, SURGICAL INSTRUMENTS, PLANS, MODELS, &c.

88 Warsegers, J., Antwerp.—Orthopedist articles.

CLASS 74.—APPARATUS AND PROCESSES FOR HEATING AND LIGHTING.

89 Costermans Freres, 27 Rue de Rollebeck, Brussels.—Fire-places.

90 Denis, V., 40 Boul. Bischoffstein, Brussels.—Marble chimney-pieces.

91 Devillers et Cie, 63 Boul. d'Anderlecht, Brussels.—Marble chimney-pieces and pedestals.

92 Perinez-Mencheur, Gougures, par Gerpinnes.—Marble chimney-piece, St. Anne marble.

93 Pilate, P., 17 Rue du Marché, Brussels.—Chandeliers and fittings for gas and electric lighting.

94 Societe Anonyme “La Suedoise,” Grammont.—Safety, parafin, and “Tandsticker” matches.

X.

Agriculture and Associated Industries.

CLASS 75.—SPECIMENS OF FARM BUILDINGS AND AGRICULTURAL WORKS.

95 Vandepulte, E., 46 Rempart des Chaudronniers, Ghent.—Plan of Flemish farm and farm-house.

96 Beullens, A., et Cie, Louvain.—Bell, weighing 568 kilos, with framework.

97 Gilbert, A., et Cie, 203 Chaussée d'Anvers, Brussels.—Decorated, tinned, and enamelled iron.

XII.

Mining Industries—Machinery and Products.

CLASS 83.—MINING AND METALLURGY.

98 Societe John Cockerill, Seraing.—Rails, girders, boiler-plates, locomotive axles and cranks, wheels and tyres, machinery wheels, etc.
Agents: Jules Renard and Co., 133 Collins-st. West.

99 Societe Anonyme des Mines et Fonderies de Zinc de la Vieille Montagne, Chenée.—Zinc, zinc ornaments, white zinc paint, zinc nails, etc.

Agents: Jules Renard and Co., 133 Collins-st. West.

INTRODUCTION TO THE DUTCH COURT.

THE highest point reached by the export trade of Holland in the five years ending 1886 was in the latter year, when they amounted to £82,850,000, against imports to the value of £91,891,666. The export in that year which attained the highest aggregate value was crockery, worth £9,087,333. Then follow textiles (raw and manufactured), iron and steel of all kinds, cereals and flour, butter, butterine, coffee, skins, oxen, sheep, gin, and vegetables. With Germany the largest proportion of trade is carried on, both in exports and imports; and next in order are the United Kingdom, Belgium, the Dutch East Indies, and America. Dutch exports into the first-named of these countries in 1886 amounted to £25,309,949. As, however, a considerable amount of merchandise passes through Holland *en route* from the Rhenish provinces of Prussia, the seat of the German silk industry, which appears in the official returns as exports from the Netherlands, it is difficult to ascertain how much of it is actually entitled to rank as Dutch products. Similarly, a goodly proportion of articles of British home produce imported into the Netherlands in 1886 were cotton, woollen, and iron goods, intended for consumption in Germany, and although not formally distinguished as such, were only in transit.

Holland sustains a close relation to Australia, in common with Germany, as co-partners with the United Kingdom in the neighbouring protectorate of New Guinea. But as trade develops between the southern colonies of Great Britain and the islands of Java, Madura, North Borneo, the Sunda Islands, the Moluccas, Sumatra, and Celebes, our merchants are certain to become more interested than at present in Dutch territory. The population of Java alone has quadrupled, under the sovereignty of Holland, since the year 1816, and at the end of the year 1885 it numbered 21,467,445. On an average of the five years 1881-5, the total annual imports of the Dutch colonies was £12,883,333, and the total annual exports £16,774,999. The greater part of the trade of Dutch India is done with the Netherlands. The principal articles of export from that region are sugar, coffee, tea, rice, indigo, cinchona, tobacco, and tin. With the exception of rice—about one-fifth of which is shipped for Borneo and China—nearly four-fifths of these exports go to the Netherlands.

DUTCH EXHIBITS.

II.

Education and Instruction—Apparatus and Processes of the Liberal Arts.

CLASS 6.—EDUCATION OF CHILDREN, PRIMARY INSTRUCTION, INSTRUCTION OF ADULTS.

- 1 Bosch, E. Van den, BREEDING CATTLE EXPORTER, Goes, Holland.—Engravings of Dutch Cattle (Holstein's) exported to America. Best Dairy Cattle of the World. See the American milk and butter records.

CLASS 10.—STATIONERY, BOOKBINDING, PAINTING, AND DRAWING MATERIALS.

- 2 Leuwarder Stoom Cartonfabrik, Leuwarden.—Paper.

- 3 Haagen, Dr. A., Roermond.—Colours.

CLASS 12.—PHOTOGRAPHIC PROOFS AND APPARATUS.

- 4 Photographs of the most celebrated animals of the Dutch herds.

CLASS 14.—MATHEMATICAL AND PHILOSOPHICAL INSTRUMENTS.

- 5 Koch, J., Amsterdam.—Optical instruments.

Sole Agents for Colonies : PFAFF, PINSCHOEF & Co., Melbourne.

III.**Furniture and Accessories.****CLASS 16.—FURNITURE.**

- 6** Schusterowitz, J., Rotterdam.—Wood, nickel, and steel ware specialties.
7 Vorstenberg, J. van, & Son, Amsterdam.—Console tables, &c.

IV.**Fictile Manufactures—Glass, Pottery, &c.****CLASS 26.—CRYSTAL, GLASS, AND STAINED GLASS.**

- 8** Vorstenberg, T. van, and Son, Amsterdam.—Various looking-glasses, framed mirrors.

VII.**Machinery, Apparatus, and Processes used in the Mechanical Industries.****CLASS 57.—APPARATUS AND PROCESSES USED IN PAPER-MAKING, DYEING, AND PRINTING.**

- 9** Witting Bros., 64 Cannon-st., London.—Straw-boards, lined, unlined, and pasted, for bookbinding, box-making, etc.

VIII.**Alimentary Products.****CLASS 68.—FATTY SUBSTANCES USED AS FOOD. MILK AND EGGS.**

- 10** Hollandia Condensed Milk Manufactory, Rotterdam.—Condensed milk.

- 11** Visser, S. J.—Rennet, cheese, and butter colour.

CLASS 71.—CONDIMENTS AND STIMULANTS, SUGAR AND CONFECTIONERY.

- 12** Van Houten, C. J., and Son, Weesp.—Van Houten's cocoa.

CLASS 72.—FERMENTED AND DISTILLED DRINKS.

- 13** Dolgaard and Son, Harlingen.—Liqueurs.

- 14** Erven, L. Bols, Amsterdam.—Liqueurs, bitters, etc.

- 15** Frank, A., Amsterdam.—Liqueurs and bitters.

- 16** Groen, T. B., and Son, Amsterdam.—Liqueurs, bitters, and gin

- 17** Heineken's Brewery, Amsterdam.—Lager beer.

- 18** Nolet, A. C. A., Schiedam.—Gin and schnapps.

- 19** Wolfs, U., Son and Co., Schiedam.—Wolfs' aromatic schnapps.

R U S S I A N E X H I B I T S.

III.

Furniture and Accessories.

CLASS 16.—FURNITURE.

Mayer, M., 84 Hatton Garden, London, E.C.—Russian wooden articles, vases, goblets, bowls, etc.

D A N I S H E X H I B I T S.

V.

Textile Fabrics, Clothing, and Accessories.

CLASS 28.—COTTON THREAD AND FABRICS.

1 Madson, F. C., and Co., Horseno, Denmark.—
Woven coloured cotton and linen bed ticks.

CLASS 31.—WOOLLEN YARN AND FABRICS.

2 Madson, F. C., and Co., Horseno.—Woollen
goods.

VI.

Raw and Manufactured Processes and Products.

CLASS 44.—CHEMICAL AND PHARMACEUTICAL PRODUCTS.

3 Adamson, W., & Co., Melbourne.—Cheese and butter colours, and rennet.

SPANISH EXHIBITS.

VI.

Raw and Manufactured Processes and Products.

CLASS 43.—AGRICULTURAL PRODUCTS NOT USED FOR FOOD.

- | | | |
|---|---|--|
| 1 | Compania General de Tabacos de Filipinas, Manila.—Cigars, &c., exhibited in a native bamboo house, specially imported from Manila, and erected in the Exhibition grounds. | 4 Del Rio, F. P., Havana, Cuba.—“La Legitimidad” cigars. Agents: Jacobs, Hart & Co., Queen-st., Melbourne. |
| 2 | Cristina, Maria, Manila, Philippine Islands.—Manila cigars, tobaccoes. These cigars are the finest imported from Manila, being made from the best leaf tobacco, and may be obtained from the leading tobacconists in Melbourne. Sole Agent: Mathew Mitchell, 49 Flinders-lane West. | 5 Turnbull, P., and Co., 122 Collins-st. West, Melbourne.—Genuine Havana cigars. |
| 3 | De Alvarez and Montero, Animas, Havana, Cuba.—“Romeo and Juliet” cigars. Agents: Jacobs, Hart & Co., Queen-st., Melbourne. | 6 Valle, A., Havana, Cuba.—A rich and handsome kiosk, filled with the finest grades of cigars. |
| 8 | Viuda, de J. Alvarez, Havana, Cuba.—A large and richly decorated kiosk, filled with cigars of highest standard. | 7 Valle, M., and Co., Havana, Cuba.—Havana cigars. |

COMPANIA GENERAL DE TABACOS DE FILIPINAS, MANILA, PHILLIPIINE ISLANDS.

TOBACCO GROWERS and MERCHANTS, and MANUFACTURERS of CIGARS,
CIGARETTES, and CUT TOBACCOES.

CAPITAL - - - - - \$15,000,000.

Factories—

FLOR DE LA ISABELA, ‘CAVITE,’ ‘MALABON,’ ‘MEISIC,’ & ‘LA MONTANESA.’

THE COMPANY GENERAL was established in 1882 on the basis of the abolitionment of the Government tobacco monopoly in the Phillipine Islands, and then acquired the exclusive right to use the brands “CAVITE,” “MALABON,” and “MEISIC,” which were formerly the property of the Government.

This Company employs about 6000 people on its Tobacco Plantations, and about 2500 women and 900 men at the Factories in Manila, having very experienced Havana Cigarmakers in charge of the manufacture of the “FLOR DE LA ISABELA” Cigars of Cuban quality, and the best ex-government “Maestras” at the head of the “CAVITE,” “MALABON,” and “MEISIC” Departments.

APPROXIMATE ANNUAL PRODUCTION—

30,000,000	Cigars of the Cuban Qualities (Habana style).
50,000,000	Philippine “ (old government shapes).
40,000,000	Cigarettes.
5,000,000	Ibs. of Cut Tobacco.

The Exhibits of this Company are to be seen in the **MANILA NATIVE BAMBOO HOUSE** erected in the Gardens, outside the Armanent Court, and consist of 37,200 Cigars of 59 different kinds, 1250 Cigarettes of 5 varieties, 9 lbs. of Cut Tobacco of 5 classes, and a complete collection of all the descriptions of Leaf Tobacco grown in the Phillipine Islands.

THE COMPANY GENERAL’S **MANILA CIGARS** are undoubtedly the finest manufactured in the Phillipine Islands, being made from the very best tobacco grown there. These cigars have acquired a world-wide reputation, and are sold by all the principal Tobacconists in the Australian Colonies.

Smokers should insist on getting COMPANY GENERAL’S “CAVITES” (the only genuine), and the “FLOR DE LA ISABELA,” Cuban qualities.

VIII.

Alimentary Products.

CLASS 72.—FERMENTED AND DISTILLED DRINKS.

- | | |
|----|---|
| 9 | Cosens, J. W., & Co., Salero Jerez de la frontera.—Sherry. |
| 10 | Daniel, G. M., Puerto de Santa Maria, Spain.—Various classes of sherry. |

INTRODUCTION TO THE PORTUGUESE COURT.

As Portugal is the original and exclusive source of the recognised brands of pure port wine, the trade of the country naturally extends to all parts of the world in which exist the means of purchasing that luxury. Wine which, in several varieties, is the chief industrial product, constitutes 50 per cent. of the entire exports, and in 1884 the quantity produced amounted to 72,000,000 gallons, France being the largest customer for descriptions of Portuguese wine other than port. The bulk of the latter kind goes to England and Brazil. The annual export of port wine to the United Kingdom in 1886 nearly approached £1,000,000. Among exports having the same destination was cork, valued at £358,640, which was followed by copper ore and regulus, oxen, fish, fruits, onions, wool, caoutchouc, chemicals, and pyrites. Portugal receives imports from the United Kingdom in a proportion nearly three times larger than from any other country, and next in the order of importance among countries from which she derives her foreign supplies are the United States, France, Germany, Brazil, Spain, and Belgium. The leading articles imported are cereals and cotton.

The total population on the mainland and in the insular dependencies of Portugal in the Atlantic is about 5,000,000, the ratio of increase being very slow, partly owing to the stream of emigrants which annually proceed to America and other countries. Only about 51 per cent. of the soil is productive, 22·6 per cent. being under tillage, 16·7 per cent. under grass, 8 per cent. under woods and forests, and 2·2 per cent. under vineyards. The business transactions of Portugal with her large possessions in Africa and Asia are considerable. At the same time it is a curious fact that for the past thirty years every budget submitted to Parliament has shown a deficit. The accumulated deficits between 1877 and 1884 amounted to £11,633,000, and were met by loans. In the ten years succeeding 1856 the public debt more than doubled, and in the budget for 1886-7 it aggregated £115,384,000. On the budget for the latter year alone the deficit proved to be £2,125,744.

PORTUGUESE EXHIBITS.

IV.

Fictile Manufactures—Glass, Pottery, &c.

CLASS 27.—POTTERY.

1 Magalhoes, E. A., Pont de Alcantara, Portugal.—Tiles.

VIII.

Alimentary Products.

CLASS 72.—FERMENTED AND DISTILLED DRINKS.

2 Andresen, J. H., Oporto, Portugal.—Port wines, 1815 vintage.

3 Hutcheson, Stewart S., Oporto.—Port wine.

4 Silva and Cozens, Oporto.—Port wine.

SOUTH AMERICAN EXHIBITS.

VIII.

Alimentary Products.

CLASS 69.—MEAT AND FISH.

Renard, J., and Co., 133 Collins-st. West.—South American “Extractum Carnis,” in solid and liquid forms, and Cibil’s extract of beef.

INTRODUCTION TO THE SWISS COURT.

As might be expected, some of the numerous and ingenious industries of that unique hive of manufacturing activity, the Federal Republic of Switzerland—the ancient *Helvetia* of the Romans—are represented among the minor courts of the Exhibition. The population numbers nearly 3,000,000, and the bulk of the people are included in three nationalities, in the following proportions, which are respectively distinguished by the language spoken:—German, 71 per cent.; French, 21 per cent.; and Italian, 6 per cent. There is also a small fraction, confined to the Grisons, of $\frac{1}{4}$ per cent. who use a *patois* known as Romanshe. The inhabitants of the valleys are chiefly devoted to the cultivation of wheat, oats, maize, barley, flax, hemp, and tobacco. Forests cover one-sixth of the whole country. The manufactures consist of silks, cottons, linen, lace, thread, woollens, &c. Clocks, watches, and jewellery, moreover, have long been the staple productions of Geneva and Neuchatel, Basle being the centre of the silk industry. Leather, gloves, porcelain, pottery, tobacco, sugar, and cheese are manufactured in the vicinity of other cities. Of the total population in 1880 no less than 1,138,678 were dependent on agriculture and dairy farming, 971,052 on manufactures, and 206,003 on commerce. About 22,000,000 gallons of wine are produced annually. The soil of the country is divided with tolerable equality among 300,000 peasant proprietors, representing a population of 2,000,000. 28·4 per cent. of the land is unproductive, while of the productive area 35·8 per cent. is under grass, and 18·7 per cent. under fruit. During the past ten years the rate of emigration—mainly to the United States—has materially increased; the total number leaving the country in that interval cannot fall far short of 100,000.

While the Swiss may be described as, in the main, a manufacturing nation, their manufactures are extensive relatively to their population. Official returns a few years since gave the number of factories in the country at 2527, with 129,120 work-people. There were 399 cotton factories, 224 silk factories, 838 embroidery factories, 92 watch factories, 114 factories for producing machinery, 98 tobacco factories, 45 woollen factories, and 53 iron works. Zürich alone in a single year lately turned out silk stuffs to the value of £3,040,000 sterling; Gallen, embroidery to the value of £3,000,000; and Basle, silk ribbon to the value of £3,000,000. The total watch-manufactures in the same year amounted to £3,200,000, and the chemicals produced, to £1,000,000. In 1884 the number of spindles in Switzerland was 1,818,363, and the annual consumption of raw cotton 50,600,000 lbs.

Being an inland country, the commercial intercourse of Switzerland is largely confined to the four surrounding States—Austria, Italy, France, and Germany—although exports of considerable value are sent to other countries, especially Great Britain and the United States. In 1886 the total imports from all parts of the globe reached £31,969,200, and the total exports to £26,696,960. Australia figures in the list as receiving from Switzerland goods to the value of £43,960, and as sending thither exports to the value of £38,120. Curiously enough, the article forwarded to foreign countries which has increased most remarkably is cheese, the export of which has quadrupled in thirty years, the weight being not less than 18,000,000 lbs.

Jaenecke Bros. & Fr. Schneemann,

SWISS EXHIBITS.

II.

Education and Instruction—Apparatus and Processes of the Liberal Arts.

CLASS 12.—PHOTOGRAPHIC PROOFS AND APPARATUS.

- 1 **Boissonnas, E. V.**, Geneva, Switzerland.—Collection of photographs, photo. material.

CLASS 13.—MUSICAL INSTRUMENTS.

- 2 **Karrer, S.**, Teufenthal, Switzerland.—Musical instruments.
3 **Wohnlich, A., and Co.**, Teufenthal, Switzerland.—Mechanical musical instruments.

- 4 **Music Box Manufacturing Co. Ltd.**
St. Jean, near Geneva, Switzerland.



New Musical Boxes with interchangeable cylinders. Patented in all Countries.

III.

Furniture and Accessories.

CLASS 23.—CLOCKS AND WATCHES.

- 5 **Clemence Freres**, Chaun-de-Fonds, Switzerland.—Watches, materials for watchmaking in various styles.

CLASS 25.—LEATHERWORK, FANCY ARTICLES, AND BASKETWORK.

- 6 **Klein, J. F., and Sons**, Meyingen Switzerland.—Fine wood carvings.

V.

Textile Fabrics, Clothing, and Accessories.

CLASS 34.—LACE, NET EMBROIDERY, AND TRIMMINGS.

- 7 **Alder, Rappolt & Engler**, St. Gall, Switzerland.—Manufacturers of Embroideries and Dresses.—London Agents: Thomas H. Firth and Gaury, 80 Watling St., E.C.

- 8 **Wetter & Co.**, St. Gall.—Collection of embroideries, trimmings, and lace.

- CLASS 36.—CLOTHING FOR BOTH SEXES.**
9 **Bally and Schmitter**, Aaran, Switzerland.—Elastic sides for boots.

Sole Agents for Colonies : PFAFF, PINSCHOF & Co., Melbourne.

VI.

Raw and Manufactured Processes and Products.

CLASS 43.—AGRICULTURAL PRODUCTS NOT USED FOR FOOD.

- 10 Frossard, J., & Co.**, Payerne, Switzerland.—Cigars of every description, and smoking-tobaccos cut in French and Continental style.
Australasian Branch: Elgin Building, Wynyard-square East, Sydney.



Cigars in Swiss and Havanna shapes of every description and price.

Medals at the Exhibitions of London, Paris, Lyons, Zurich.

- 11 Taverney, H., & Co.**, Vevey, Switzerland.—Swiss cigars. Agents: Jacobs, Hart and Co., Queen-st., Melbourne.

- 12 Vautier Freres**, Grandson, Switzerland.—Cigars and tobacco.

CLASS 44.—CHEMICAL AND PHARMACEUTICAL PRODUCTS.

- 13 La Societe Eaux Minerales**, Alcalines de Montreux.—Mineral waters.

VII.

Machinery—Apparatus and Processes used in the Mechanical Industries.

CLASS 48.—APPARATUS AND PROCESSES USED IN AGRICULTURAL WORKS, AND IN WORKS FOR THE PREPARATION OF FOOD, IRRIGATION OF LAND, &c., &c.

- 14 Daverio, G.**, Zurich, Switzerland.—Roller-mills, centrifugals, purifiers, etc.
15 Schmidler, G., and Escher, Zurich, Switzerland.—Hillsilos for flour mills.

CLASS 51.—MACHINES AND APPARATUS IN GENERAL.

- 16 Baum, G., and Co.**, Arbon, Switzerland.—All kinds of pumps for use in factories, breweries, wine cellars, ship, garden, yard, and fire pumps.

CLASS 52.—MACHINE TOOLS.

- 17 Grobet, F. L.**, Vallorbe (Switzerland).—Established since 1834. Manufacturer of Files, Engravers' Tools, Tools for Watchmakers, Jewelers, Sewing Machine and Gun Manufacturers,

Machinists, etc., etc. Files and Engravers' Tools of every description made according to samples or drawings for all branches of the Mechanical Trades in which fine tools are required.

Sole Agents for Australia and New Zealand: Schmedes, Erbslöh & Co.—Melbourne, 71 Flinders-lane E.; Sydney, 80 Pitt-st.; Brisbane, Albert-st.; Auckland, Canada Buildings, Queen-st.

CLASS 55.—APPARATUS AND PROCESSES FOR SEWING AND MAKING UP CLOTHING.

- 18 Wetter and Co.**, St. Gall, Switzerland.—Model of Swiss embroidery machine.

- 19 Werkyeng and Maschauer**, Zurich, Switzerland.—Tool machinery.

CLASS 57.—APPARATUS AND PROCESSES USED IN PAPER-MAKING, DYEING, AND PRINTING.

- 20 Martin, F., and Co.**, Frauerfeld.—Duplex folding machine.

VIII.

Alimentary Products.

CLASS 68.—FATTY SUBSTANCES USED AS FOOD. MILK AND EGGS.

- 21 Nestle, H.**, Vevey.—Nestle's milk food for infants, Swiss milk.

CLASS 72.—FERMENTED AND DISTILLED DRINKS.

- 22 Bouvier Freres**, Neuchatel.—Sparkling wines.

- 23 Demme and Krebs**, Berne.—Chartreuse, yellow and green; Cognac and Kirsch.

- 24 Gottfried Fassbind, jun.**, Arth.—Distilled drinks from cherries.

- 25 Talon, L.**, Villeneuve.—White wine.

INTRODUCTION TO THE TURKISH COURT.

THE superficial area of the Ottoman Empire may be estimated at 1,263,542 square miles, and its total population at 33,268,361. This includes, however, dependencies over many of which the Sultan exercises only nominal sway. The inhabitants of the immediate provinces of Turkey in Europe do not number more than 4,790,000, the population of the tributary province of Bulgaria being 2,007,919, that of Bosnia, Herzegovina, and Novibazar, 1,504,091, and that of the autonomous province of Eastern Roumelia, 975,030. These figures give a total Turkish population in Europe of 9,277,040. The aggregate inhabitants of Turkey in Asia, including the tributary principality of Samos, is 16,174,056. She nominally rules, as suzerain, over a population of 6,817,265 in Egypt, and 1,000,000 occupying the vilayet of Tripoli, in Africa. Cyprus, though Turkish in name, is in reality under the control of Great Britain. Constantinople, the capital of the empire, contained in 1885, 873,565 inhabitants. According to statistics issuing from the Turkish Custom House, the import trade of the country is done with England in the proportion of more than double what is transacted with any other single foreign State. The exports sent to France in 1886-7 exceeded those shipped to any other country, while in the year preceding England took the lead both as regards the export and import values of Turkish commerce. The other countries having extensive commercial relations with the Ottoman Empire are Austria and Russia. It would appear, therefore, to be something more than a coincidence that these are the powers who, with England and France, display the deepest anxiety about the long-postponed settlement of "the Eastern Question." In any case, it is certain that the annexation of Turkish territory by Russia in Europe and Asia, if permitted, means the comparative extinction of British trade in the regions which may at any time be transferred under Muscovite rule. The staple export from the Turkish Empire to the United Kingdom of recent years has been corn, which, nevertheless, was more largely shipped a dozen years ago than it is to-day. Next in value stand wool and goat's hair, valonia (dye stuff), opium, raisins, figs, and tobacco. Prominent among imports are cotton and cotton yarn, woollen goods, iron and copper (wrought and unwrought), coals, and machinery. It is significant of the inefficiency of postal arrangements that although 700 post-offices are established in Turkey, by far the larger number of articles passing to and fro between that country and foreign states, and from one port to another in the empire, go through foreign post-offices in Turkey belonging to Great Britain, Austria, Germany, France, and Russia.

Notoriously the weak spot in Turkish administration is the chronic disorganisation, during the past thirty-four years, of her public finances. Between 1854 and 1874, the amount of debt contracted by the Government was £223,196,740. Since the latter date two fresh loans have been raised. Numerous attempts have been made by the holders of the debt to compromise with the insolvent borrowing State. The result is that in 1875 the interest on the debt was reduced for a time by one-half, but in the following year an order of the Government was issued that no further payments of interest should be made pending a more settled condition of internal affairs. In 1881, the bondholders, finding it hopeless to expect payment in full, consented to a reduction of the original total to £106,437,237, or considerably less than one-half. Since 1882, 1 per cent. interest has been paid on the reduced capital value. There is also a large internal debt bearing no interest. But the prospect of the principal of either the external or internal debt ever being reimbursed is sufficiently remote to be beyond anticipation. At the same time, the fact remains that under the vigorous and enterprising administration of a highly civilised western power Turkish regeneration is not only possible, but practicable.

TURKISH EXHIBITS.

III.

Furniture and Accessories.

CLASS 25.—LEATHERWORK, FANCY ARTICLES,
AND BASKETWORK.

1 Abon, J. J.—Oriental and fancy goods, etc.

2 Attala, M.—Oriental and fancy goods, etc.

3 Cannon, J.—Oriental and fancy goods, etc.

4 Dabdab, J.—Oriental and fancy goods, etc.

5 Mowbareh, B.—Oriental and fancy goods, etc.

6 Sleby, C.—Oriental and fancy goods, etc.

7 Warde, J.—Oriental and fancy goods, etc.

EGYPTIAN EXHIBITS.

VI.

Raw and Manufactured Processes and Products.

CLASS 43.—AGRICULTURAL PRODUCTS NOT USED FOR FOOD.

Aidonide, P., Cairo, Egypt.—Egyptian manufactured cigarettes and tobaccos.

INTRODUCTION TO THE CHINESE COURT.

THE exhibits from China, though not extensive, are interesting, as coming from the most ancient and populous of existing nations. The area of China proper and her dependencies, covering 4,468,750 square miles in extent, contains rather more than one-twelfth part of the entire land surface of the globe. Within her territories is to be found unrivalled water communication, some of the largest rivers in the world emanating from her mountain ranges. The Amoor is 2400 miles in length; the Brahma-Pootra runs more than 1000 miles within the Empire; the Yellow River in its course of 2800 miles drains nearly 715,000 square miles; and the Yangtze is said to flow about 3200 miles, draining an area of 950,000 square miles. As regards population, the most extravagant estimates have been formed at various times, and the official census returns are generally held by European statisticians to be untrustworthy. The most recent official census of the eighteen provinces gives a total of 382,000,000; but the number published forty-six years ago by authority of the Pekin Government was 36,000,000 more. In any case, the Chinese constitute about one-third of the entire population of the habitable globe. It is noteworthy, as indicating the disposition of a section of Chinamen to seek their fortunes abroad, that, when a deputation of Englishmen waited on the Chinese Ambassador in London some years ago, he remarked that "as representatives of the Chinese Government had now taken up their abode at Western Courts his people might be expected eventually to follow."

For the last five hundred years, under the Tartar dynasty, the Chinese were pre-eminently an exclusive nation, and until the discovery of gold in Australia and California, notoriously disinclined to leave their country or allow western people to reside among them, except at what are known as "the treaty ports." Even now it is estimated that not more than seven thousand foreigners reside in China. But history informs us that centuries ago, so far from being jealous of people of other countries, the Chinese treated them with hospitality, and performed enormous journeys in carrying out trading enterprises with other nationalities. Abbé Huc states that when the Buddhists were driven out of India by the persecution of the Brahmins they migrated to the Celestial Empire "in countless caravans." Six centuries later the Manichaeans and Fire Worshippers, at the conquest of Persia by the Mahometans, "rushed into China in crowds," and, like the involuntary exiles from India, were received in a kindly spirit. Huc remarks that in the ages preceding the advent of the Manchoo Tartar conquerors "Arabs, Persians, and Indians came and traded in Chinese ports without let or hindrance, and also freely passed into the interior and traversed the provinces." Nor is it many years since a Frenchman followed, across the steppes of Tartary, a Mongol caravan, consisting of a long string of camels, laden with Chinese merchandise to Kiakta, on the frontiers of Siberia. In proof of the superior intelligence of the Chinese at a time when Western nations were sunk in barbarism, Dr. Zerffi, in his Hand-book on Art, says: "They

knew our globe was flattened at the poles at the time when we thought it to be a square, supported by pillars; they were acquainted with the magnetic needle, worked metals, cultivated the mulberry tree, and systematically fed the silk-worm with its leaves, weaving its product into the very best silk. In pottery they have attained the greatest perfection, so far as the material is concerned. They have aqueducts executed with great daring; innumerable bridges span their rivers; they drained and irrigated their land at a time when other people assumed the existence of a universal deluge; 4500 years ago they reached a high degree of civilisation." To these notable achievements might be added the fact that they knew how to calculate the occurrence of eclipses 700 years B.C., and used the printing-press 500 years before the invention of it was dreamt of in the Western Hemisphere. They have been accustomed to painted glass in the interstices of their window lattice-work for nearly 5000 years, and their taste even at that remote period was sufficiently developed to enable them to blend colours in striking harmony. They have built a stupendous piece of masonry, which will remain the wonder of the world—a huge wall, 25 feet thick at the base, diminishing to 15 feet at the platform, studded every 100 yards with towers 40 feet square at the base and 30 feet at the top, and varying from 37 to 48 feet in height. This immense structure they have carried over ridges in some instances 5000 feet above the level of the sea. Their statistical records, which b.c. 2205 numbered 4768 vols., specify gold, silver, ivory, precious stones, five sorts of pigments of mineral extraction, silk, hemp, cotton, cloth of these materials, and birds' feathers of all sorts. An agent of the British Government a few years since concluded negotiations with the Pekin authorities for the purchase of an encyclopædia of native literature covering 6000 vols., the mere index occupying 20 vols. Their ability to organise is shown in the fact that for many centuries every child in the Empire over a certain age has secured by law the advantage of an elementary education, and their capacity for commercial enterprise appears in the large undertakings they successfully direct on sea and land, including powerful fleets of steamers plying on the Chinese coast, purchased by them after the vessels had proved a failure in the hands of their original owners. Within the limits of the Empire there are 20,000 miles of Imperial roads. During the Franco-Chinese hostilities of 1884-5, China had over 600,000 men under arms, and these were sufficiently equipped not only to keep the French at bay, but to drive them off at Tainsin and Langson. The Chinese army at its full strength is 1,200,000, but if it was brought up to the same proportion to population as the army of Germany is, it would reach the startling number of 20,000,000 men. At present their navy consists of five ironclads, six cruisers, and fifteen gunboats, built in England and Germany, and about 100 other vessels, some of which were built in their own arsenals at Foochow and Shanghai.

If a nation just waking up to the importance of adopting the leading features of Western civilisation can give so good an account of itself, with only forty-seven miles of railway as yet in the whole empire, the future of its teeming population when its surface is covered with networks of railways and telegraphs is not to be lightly considered. The imports of European-built vessels at the twenty-two treaty ports in 1886, chiefly comprising cotton goods and opium, amounted to £28,430,700. The exports, the principal articles of which were tea and raw silk, were valued at £25,092,140. Three-fourths of the trade carried on at the open ports referred to is with England and her colonies.

The industrial prospects of China, when she is brought fully under the influence of Western enterprise, may be judged by the magnitude of her coalfields, which, as yet, are almost unworked. The total amount of coal raised at present is under 3,000,000 tons per annum. Each of the eighteen provinces, however, contains coal, and China is regarded by mineralogical authorities as one of the first coal-producing countries in the world. There are also considerable stores of iron and copper awaiting the application of capital and labour. In view of these great resources, capable of ultimate development, and the future relations of China with Western communities and their dependencies, a writer on the subject has the following statements:—"The Eastern question now pending will, by-and-bye, be utterly eclipsed by the immeasurably more momentous issues of the physico-social and economic questions relating to an empire still further east than India, when, in the distant future, these shall have become ripe for settlement. We are in contact here with a formidable problem, in the solution of which we have no historic analogy to guide us. Chinamen cannot be much utilised in foreign countries, but the capital and enterprise of great industrial Aryan nations will probably be transferred to China, and that country may yet become, under the direction of Western genius, the grand centre for the supply of textile fabrics and ironwork of all kinds to the markets of the world. Coal and iron are known to exist in abundance in the flowery land. The cotton-plant also can be easily grown in certain parts of the country; and there is apparently no barrier to the erection of countless cotton, woollen, and silk mills, and iron foundries there, fitted up with the latest Western mechanical improvements; and as far as native labour is concerned, it may be hired at a mere nominal cost." The native races of America, Australasia, and Polynesia die out by contact with Europeans; but the hardy Mongolian takes up his residence, often under most insanitary conditions, in the populous centres of the United States, Australasia, and South America, and succeeds, with perfect impunity, in adapting himself to the new situation.

CHINESE EXHIBITS.

II.

Education and Instruction—Apparatus and Processes of the Liberal Arts.

CLASS 9.—PRINTING, BOOKS.

1 Ngkiva, Shang, Hong Kong.—Books.

CLASS 12.—PHOTOGRAPHIC PROOFS AND APPARATUS.

2 Ngkiva, Shang, Hong Kong.—Photographs.

III.

Furniture and Accessories.

CLASS 16.—FURNITURE.

3 Doubleday, Ilsey and Co., Hong Kong, China.—Case furniture and general goods.

4 Co-Operative Company, Shanghai, China.—Cabinets.

CLASS 25.—LEATHERWORK, FANCY ARTICLES, BASKETWORK.

5 Ngkiva, Shang, Hong Kong.—Fancy articles.

V.

Textile Fabrics, Clothing, and Accessories.

CLASS 40.—TOYS.

6 Ngkiva, Shang, Hong Kong.—Toys.

VIII.

Alimentary Products.

CLASS 71.—CONDIMENTS AND STIMULANTS, SUGAR AND CONFECTIONERY.

7 Bastiani, J., Singapore.—Preserved pine-apples.

8 Bathgate and Co., Foochow.—Tea.

9 China Sugar Refining Co., Hong Kong.—Sugar.

10 Clifford, Love and Co., William-st., Melbourne.—Various samples of teas grown in the districts of Foochow.

10a Lange and Thoneman, 69-71 William-st., Melbourne.—Tea blended and packed into cartons and tins by a special and economic process.

12 Jardine, Matheson and Co., Hong Kong.—Tea.

14 United Tea Plantation Co., 12 A'Beckett-st. East, Melbourne.—Teas, with models and photographs of their culture and management.

The principal Chinese residents in Melbourne have formed a Committee for the purpose of representing their country, by exhibiting a very interesting collection of workmanship.

INTRODUCTION TO THE JAPANESE COURT.

THOSE familiar with the curiosities of the Japanese shops planted in the chief cities of Australia will be prepared for the general *coup d'œil* of the Japanese Court. High art was successfully cultivated by the people of Japan thousands of years before the recent adoption by them of a European *régime* in manufactures, education, and style of living. In view of the remarkable intelligence and enthusiasm with which they have imbibed Western civilisation, no well-wisher to Japan could desire for them a return, pure and simple, to the ideas which formerly prevailed among them, from the mikado and tycoon to the daimios and the poorer classes. At the same time, a wholesale, slavish imitation of Western habits is not unattended with danger to the development of Japanese individualism. If the notion should gain a footing in this interesting nation that the ways of English, Americans, French, and Germans must be strictly conformed to, merely because they are decreed proper by the authority of social rule and fashion, and if the beautiful traditional arts formerly cultivated by them should be allowed to decay, the outward, sudden, and general abandonment of ancestral standards of living, and the substitution for these of the manners and customs of Christian nations, could not be regarded as an unmixed gain. It is not without good reason that the late Lady Brassey, in her *Voyage in the "Sunbeam,"* remarks, when visiting the temple of Shiba and other shrines, "I had no idea there was anything so beautiful in Japanese architecture as this temple. We entered several of the temples, which were perfect marvels of carving, gilding, painting, and lacquer work. This style of decoration may be somewhat barbaric, but what a study for an artist! Outside, where no colour is used, the overhanging roofs and the walls are carved with a depth and boldness, and yet a delicacy, I have seldom seen equalled." It is a similar sentiment that possesses us as we look up and down the Japanese Court. The splendid variety of vases, bronzed and lacquered work, the choice carving of cabinets inlaid with diverse materials, the miniature *jinrikishas*, the mimic rockeries, trees, lakes, gardens, dwellinghouses, and temples; the paintings reminding one of pre-Raphaelite efforts; the mats, screens, *hibatchis*, and lamps, all combine to make us hope that the native race will follow the eclectic plan of extracting what is good from the science, art, and industries of Western peoples without permitting to fall into decadence their own national ideas of beauty and truth. The expression of this hope becomes enhanced when we recall the sense of business honour which so largely distinguishes the Japanese in their own country.

A true Japanese artist never repeats himself, and consequently, as is the case with Doulton's decorated ware, he never makes an exact pair of any articles. But modern articles, in so-called civilised countries, are too often merely monotonous repetitions of each other, turned out not only in pairs, but by the dozen and the hundred.

It may assist visitors to this court in appreciating its exhibits, and the unique people whom these represent, to have a few particulars concerning the country, received direct from the Government department in Tokio. On the 1st January, 1886, the population of the forty-five provinces comprising the Empire was 38,151,217. It is therefore not less populous than the United Kingdom. In the public finance department there is a "Bureau of Deposits" placed under the care of Government by "shrines, temples, the ecclesiastical societies, or any other associations collectively, and not by individuals, according to the deposit regulations." The amount to the credit of depositors in this department is not far short of £2,000,000. There is also a "Savings Office of the Department of Communication," in which, during the twelve months ending 31st December, 1886, there was deposited, mostly by 298,881 small holders, nearly £2,500,000. The interest allowed in both departments is 3 per cent. for sums of £200 and upwards, and of 4½ per cent. for sums under £200. A further number of 34,032 depositors have upwards of £300,000 in the care of 145 offices of the "National Banks" of Japan, there being 258 of such "National Banks" in the country. In addition, there are 220 private banks transacting a savings bank business, although it is impossible to know the actual amount deposited with them, as the publication of their accounts at present does not seem compulsory. Their affairs, however, are conducted subject to the approval of the local Government. Such facts are eminently suggestive of the thrift of the Japanese.

The foreign trade of the country is not so large as might be anticipated when the size of the population is considered. The total exports do not much exceed £6,000,000, and the imports are under that figure, the exports being about £800,000 over the imports. It is instructive to observe that the value of imported articles from Great Britain is nearly double what it is from any other single foreign nation. China stands second as a source of their imported goods; the five states next in order being the United States, the East Indies, Germany, France, and Switzerland. Oil for illuminating purposes is largely received from

America. It will probably be a matter of surprise to many to learn that the largest foreign buyer by far of Japanese goods is the United States, France being next, with a value equal to about half that of the imports into the United States from Japan. There can be no doubt that a great impulse has been given to trade with America by the opening up of regular steam communication with California. The five countries next in succession as importers from Japan are China, Great Britain, East Indies, Germany, and Australia. But the imports received from Australia are at present almost nominal. It can hardly be doubted that foreign trade with Japan will steadily increase as the artificial wants created by its new civilisation gradually develop. The Japanese have hitherto raised only such articles of food and raw produce as they needed for themselves, including wheat, rice, barley, cotton, silk, iron, and copper. The copper of the country, long famous for its purity, is used to a small extent by the Japanese in preserving their junks, but much more in ornamenting them. The supply of excellent coal procurable from the islands of Kinsin and Sikokt, in the principalities of Tchikugen and Awa, proves a valuable and augmenting source of national wealth. Camphor is produced, and both unrectified gum and timber are obtainable. The pine wood is of the finest quality, and is in some request abroad for cabinet work, as is also curly maple and other woods which further investigation may discover. Tea of the choicest description is grown in Japan, but requires manipulation to adapt it to Western palates. The lacquered ware—laid shell, mosaic, gilded, and plain—is not equalled by anything of the kind produced in the East. The specimens of silk fabrics furnished by the Japanese show that they can manufacture almost every variety of these goods. Crapes, pargees, challis, camlets, and gauze, are all made to perfection by them. Cheap combinations of cotton and silk are woven, and form substitutes for pure silk among the poor. The dyes in all kinds of silks, and the stamps on cottons, further prove that the arts of ornamenting the products of the loom have been carried to a high degree of excellence. Some of the tints are superior to those in China, and the variety of patterns stamped on cotton is great and novel. Paper of a coarse quality is produced in enormous quantities for wrapping purposes. This is all manufactured from the bark of the paper mulberry (*Bronsonetia*), which grows wild about Simoda. Rain cloaks, made of oiled paper and afterwards varnished, are neatly-made articles which ought to find a market in every warm climate where rain descends. Some of the Japanese porcelain exceeds anything to be found elsewhere, for thinness and clearness of ware. Indian ink, tobacco, fish-oil, rape seed, and other minor miscellaneous products might be worth attention for exportation. Among articles formerly in demand from foreign countries, were cheap woollens and blankets, but the people now are in a fair way of manufacturing these for themselves. Glassware, fancy-coloured and frilled cottons, cutlery, watches, soaps, and perfumery, are sought after by them. Probably the chief drawback to extensive foreign trade at present is that domestic manufactures are but little in excess of domestic wants. Among other productions of the Japanese provinces are damasks, satins, taffetas, scarfs, wine, fruit, figs, sugar-of-rice, tree cotton, diamonds, raisins, black yams, coal, and edible roots of the lotus, gold-flowered gauzes, brass guns, white paint, shoes, vinegar, umbrellas, knives, melons, paper, salt, pearls, oranges, varnish, wax, fish, lime, hempen cloths, saddles, whips, kettles, asbestos, cotton thread, potash, lead, silver, tin, sulphur, and madder.

The growing intelligence of the people is incontestably proved, not only by the remarkable progress of their National University, in which examinations now take place for degrees in arts, law, medicine, and engineering, but also by the increased demand for Anglo-Saxon literature in the country. In 1886 over 85,000 English books of all classes were imported, against 40,000 in 1885. The import of books printed in America rose from 59,000 in the latter year to 119,000 in the former.

JAPANESE EXHIBITS.

III.

Furniture and Accessories.

CLASS 25.—LEATHERWORK, FANCY ARTICLES,
AND BASKETWORK.

1 Doubleday, Isley & Co., Yokohama, Japan.
—Japanese curios.

2 Hunter, E. H., & Co., Hiogo, Japan.—Japanese curios.

3 Numashima, Jirobei, 91 Elizabeth-st., Melbourne.—General productions of Japan.

VOL. II.

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INTRODUCTION TO THE MADAGASCAR COURT.

THE trade and commerce of Madagascar have been adversely affected by the recent war of resistance, waged against French aggression and the establishment of a French protectorate over the island, which, however, was finally secured by the Tamatave treaty of the 12th December, 1885. An official estimate values the total exports and imports before the war with France at £800,000, but in the first half of 1887 the imports at Tamatave were valued, according to a French report, at £54,920, and the exports from that port at £57,430. Of the latter, America received £23,450, and France £16,820. Of recent years the share of England in Malagese trade has been subjected to wide fluctuations. In 1878 the value of the exports to Great Britain and Ireland was £4300, and in 1883 these expanded to £87,865, but receded in 1886 to £6777. The imports from the United Kingdom rose from £1412 in 1844 to £52,216 in 1886. The imports consist mostly of cotton fabrics, and the exports, to a large extent, of indiarubber, cattle, hides, coffee, lard, sugar, vanilla, wax, gum, rice, and seed.

Madagascar is favourably situated for all kinds of tropical productions, as it sweeps no less than fourteen latitudes between 11 degs. 57 mins. and 25 degs. 38 mins. south, the island being over 1000 miles long and 370 broad, or nearly twice the area of the British Isles. The estimates of the population range from 3,500,000 to 5,000,000.

At present the commerce of Madagascar is carried on principally with Mauritius and Réunion. But, in view of the enormous latent resources of the country, it is not unreasonable to suppose that in the remote future there may develop a considerable exchange of products between the island and Australasia. A slight inspection has proved the existence of mineral wealth in the interior, including gold, copper, iron, lead, sulphur, graphite, and coal. Hitherto, cattle-dealing and agriculture have been the chief occupations of the people; rice, sugar, coffee, cotton, and sweet potatoes being cultivated. The forests abound in many valuable kinds of wood, tropical and subtropical products being plentiful. Prominent among manufactures are silk and cotton weaving, and textures manufactured from palm fibre and metal work employ a large amount of native labour. The first act by which Madagascar signalled its admission to the protectorate of a civilised nation was the borrowing of a sum of 15,000,000 francs from the Paris Comptoir d'Escompte, of which 10,000,000 francs went to pay a war indemnity to France.

MADAGASCAR EXHIBITS.

III.

Furniture and Accessories.

CLASS 17.—UPHOLSTERERS' AND DECORATORS' WORK.

1 Porter, Aitken & Co., Tamatave, Madagascar.—Curtains.

V.

Textile Fabrics, Clothing, and Accessories.

CLASS 29.—THREAD, AND FABRICS OF FLAX,
HEMP, JUTE, &c.

2 Porter, Aitken and Co., Tamatave.—
Mattings, fibres, etc.

CLASS 33.—SHAWLS.
3 Porter, Aitken and Co., Tamatave.—Shawls.

CLASS 34.—LACE, NET, EMBROIDERY, AND
TRIMMINGS.

4 Porter, Aitken and Co., Tamatave.—Laces.

FISHERIES COURT.

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| 1 Allcock, S., & Co.—Tackle and appliances. | 19 Hill, J.—Deep-sea fishing vessel, with trawl net at work. |
| 2 Bailey, Mrs. J. F.—Shells and fossils. | 20 Kent, W. S., F.L.S., F.Z.S.—Coloured plaster casts Victorian fish, economic exhibits illustrative of oyster culture. |
| 3 Ballarat Acclimatisation Society.—Trout-hatching box, showing ova in process of hatching; brown perch from Lake Wendouree. | 21 Kong Meng, L.—Chinese war and pleasure vessels. |
| 4 Ballarat City Council.—Stuffed fish, etc.; exhibit showing process of trout ova hatching. | 22 Kreitzmeyer, M. L.—Sealskin clothing and penguin skin cap. |
| 5 Bains, E.—Victorian sponges. | 23 Murray, P.—Nets. |
| 6 Bradley, E. J.—Oil paintings of South Australian fish. | 24 M'Lean Bros. & Rigg.—Fishing appliances. |
| 7 Coles, A.—Stuffed fish. | 25 National Museum.—English salmon (stuffed specimen of); stuffed fish. |
| 8 Commissioners for New South Wales.—Illustrations of economic fish and oyster culture. | 26 Osburne, E. W.—Model of yacht. |
| 9 Commissioners for Queensland.—Dugongs, turtles (alive), clam shells. | 27 Parelius, Rasmus.—Herrings in tins. |
| 10 Commissioners for South Australia.—Béche-de-mer. | 28 Prest, R.—Nets. |
| 11 Connor, J.—Nets. | 29 Robertson, W.—Model of salmon stalled fly. |
| 12 Crawford, J.—Victorian seaweeds. | 30 Robinson, R.—Crayfish trap, nets. |
| 13 Dusting, W. H.—Nets, curios, etc. | 31 Shi Geen and Tye Shing.—Chinese turtles. |
| 14 Edwards and Son.—Fishing appliances. | 32 Solomons, S.—Japanese fish (stuffed). |
| 15 Exhibition Trustees.—Drawing of fish, New Guinea nets, specimen of seaweed. | 33 Thomas, G.—Nets. |
| 16 Flatow, Mrs. J. V.—Shells. | 34 Tough, A., & Co.—Appliances. |
| 17 Fraser, J. W.—Model of brig. | 35 Wilkinson, D.—Shells. |
| 18 Gotz, E.—Net. | 36 Young & Jackson.—South Sea canoe, fish hooks, and mussel shells. |

INTRODUCTION TO THE FINE ARTS COURT.

and Special Catalogue of Fine Arts" can be bought in the Exhibition,

It is eminently satisfactory that the rising professional artists of Australasia should have mustered in force on the walls devoted to their department in the Exhibition. Widespread taste for art among the colonists is also shown by the number of amateur productions exhibited, and the demand for space by the same class of applicants, which could not be spared by the Executive Commissioners. Portraits, landscapes, and sea-pieces, in oils, crayons, and water-colours, reveal a considerable amount of native artistic talent, more or less latent or developed, although leaving room in many cases for extensive technical improvement. Buckle contends that the type of a nation's religion is notably influenced by the character of the scenery amidst which the inhabitants live, and the application of a similar principle to the character of a country's art is strikingly illustrated in the profession of painting as practised under an Italian and Spanish sky, contrasted with the somewhat sterner aspect which art presents in Holland and England; and it might naturally be supposed that the climate, topography, and products of a new land like Australia would not be without their effect in stamping distinctive features on Australian art, marking it off from the schools of Europe and America, as these from local causes all differ from each other. Indeed, judges say that national characteristics are already incipiently apparent in the higher order of Australian drawings and paintings. It may be fairly assumed, however, that students of art in this country, fired with love of their profession, cannot look upon the more choice pictures, ancient and modern, from Europe, including some costly English, Spanish, Dutch, Italian, French, and German productions in the present Exhibition, without receiving an impetus forward.

BRITISH PAINTING.—Fifty years ago water-colours were hardly known beyond the limits of two water-colour galleries in the Imperial metropolis. Now this class of painting affords employment and recreation to thousands. The Royal Academy Exhibition of 1837 contained the works of 683 artists, who constituted nearly the entire practising body in the United Kingdom at that time. A recent Academy Exhibition at Burlington House included works by 1300 artists, and at twelve leading art exhibitions, held in the English provinces in 1886, there were 9500 pictures exhibited by 4500 artists. The annual amount now spent on museums and art education in the parent country is £650,000, against £1500 five decades ago. The increasing number of wealthy connoisseurs now able to gratify their tastes renders the choicest art treasures in the country practically priceless.

Mr. Chesneau fixes the inauguration of the period of marked improvement which has taken place in modern English painting, in 1850, thus making it coincide with the pre-Raphael movement. But the date he selects is much too recent. Among the great pioneers of the Renaissance was Turner, who died about the time when gold began to attract immigration to Australia. Exactly half a century ago he painted the first of his great pictures, the extraordinary colour effects of which won him hosts of fascinated admirers. The subject was "The Fighting 'Temeraire' tugged to her last Berth." One of his best is "Peace: The Burial of Wilkie at Sea," a scene in itself peculiarly touching from the painful circumstances of Sir David Wilkie's death. It is true that some older patriarchs of the brush, such as Richard Beechey, Richard Westall, and James Ward, were still alive in the palmy days of Turner; but so far as their painting was concerned it may truly be said to belong to a previous age. The schools which drew inspiration from the study of Reynolds, Gainsborough, and Romney, from admiration for Claude, from familiarity with the Dutch and Wilkie, and from an imperfectly-informed enthusiasm for high art, resulting from European tours and the achievements of the English *dilettante*, came to an end concurrently with the last surviving son of George III. The one branch of painting in prosperous development in the early years of the Victorian era was landscape in water-colours, which Ruskin's praise largely contributed to establish in public esteem. "Wind against Tide," "Tilbury Fort," "Castello d'Ischia from the Mole," and "Day after the Wreck," by Stanfield, are really meritorious pictures. As for Etty, it may be safely affirmed that in flesh painting he was never surpassed, and the only painter who can at all compare with him is Rubens. But in the contemporaneous band of water-colour painters, including David Cox, Cattermole, Barret, Copley Fielding, Cristall, Varley, and Turner, the latter excelled all his peers in uniting knowledge, imagination, and skill, although in pure art, strictly so-called, Cox is generally admitted to have been before Turner.

Several artists, whose names are still cherished, first succeeded in winning the attention of the public as prize-takers in a competition connected with pictures required by the Lords Commissioners for the New Houses of Parliament at Westminster, in 1847, after

and is indispensable to every Visitor.

the destruction by fire of the old Parliament House. The prize-winners were F. R. Pickersgill, G. F. Watts, E. Armitage, J. Cross, Poole, Noel Paton, Horsley, Lander, and Lucy. Among those who were unsuccessful, however, was Millais, who has for many years stood in the very front rank of his profession. Seven years later the English artists specially distinguished at the Paris Exhibition were Landseer, Frith, Millais, Eastlake, Elmore, Linnell, Cox, and Cattermole; but, in the area of his fame, Edwin Landseer immeasurably transcended the rest. At the Exhibition referred to, Frith was not considered worthy of a higher award than that of a second-class medal; yet two years afterwards he painted his celebrated picture, "Derby Day," on which his reputation chiefly rests, and which was regarded so great a masterpiece that it was afterwards purchased for the National Gallery. The pre-eminent skill of Lewis was displayed in managing the brilliant tints of the East, and he has done for Cairo what Phillip did for Seville. The influence of the artist last named can be plainly traced in Burgess, Edwin Long, and others who have succeeded him.

Pre-Raphaelitism—some of whose original representatives still survive—although its once characteristic features have been modified beyond recognition, had a more powerful effect for good upon English art than any other movement on record. It was tantamount to a revolt, on the part of a body of earnest and promising devotees of art, against feelingless conventionality. The seven original members of the brotherhood were W. Holman Hunt, Dante Gabriel Rossetti, James Collinson, George Stephens, J. Everett Millais, Thomas Woolner, and W. M. Rossetti. Among disciples of the school may be mentioned Bell Scott, Arthur Hughes, and Maddox Brown. It is needless to say that by far the most renowned of the apostles of pre-Raphaelitism has proved to be Sir John Millais, although in the bulk of his later works he can hardly be said to be loyal to his early art idea; but at the start of the movement in 1849, unquestionably the *facile princeps* was Dante Rossetti. It is only six years since his lamented death, and now is his genius at length beginning to take its true place in the art world. In the then impending application of the new *régime* to painting, Rossetti was surpassed by his disciple, Millais, soon after it was inaugurated, as everyone can testify who remembers the first appearance of the realistic "Carpenter's Shop," "The Return of the Dove to the Ark," and "Huguenot," the last being one of the most successful of English pictures. It has been stated that after that great effort the hand of Millais became more free, but his conceptions less pregnant. Of late years his name has been chiefly associated with male portraits, the one of J. C. Hook, R.A., from his easel, being called "the portrait of the century."

Holman Hunt has mostly kept a place apart, and seems to have a preference for religious subjects, as may be gathered from their titles, "Light of the World," "Scapegoat," and "Finding of Christ in the Temple." Maddox Brown has chosen the rôle of exponent of French art, and Burne Jones follows in the same line. Alma-Tadema, whose "Vintage Festival in Old Rome" was recently purchased for the National Gallery in London, stands out in growing prominence, but is principally known as the painter of "Ave Cæsar Imperator" and "Salon of Madame Recamier." As a painter, and also as a sculptor, Sir Frederick Leighton, the accomplished President of the Royal Academy, belongs to the past half-century, and he may be supposed to be approaching the end of his labours. In portrait painting, the most popular artist at the present time is Frank Holl, who has risen into notice as the painter of the life-like portraits of Bright, Chamberlain, Trevelyan, and the Duke of Cambridge. Not the least notable of the men who have risen to eminence within the past dozen years is Herkomer, whose picture, "The Last Muster," merits all the commendation which has been bestowed upon it. Paradoxical though it may seem, the greatest of modern battle-painters is a woman—Miss E. Thomson (now Mrs. Butler). The "Roll Call," when first exhibited, produced nothing short of a sensation. Then followed, from the same source, "Quatre Bras," "Scotland for Ever," "Return from Inkerman"—pictures not inaptly described as having "true virile force."

ITALIAN PAINTING.—The founder of the true Renaissance of art in Italy was Giotto, whose influence lives to the present hour. Early in the thirteenth century Pisa and Lucca were the chief seats of what rude painting then existed in Italy. Even in the fourteenth century no city—not even Florence—was so fertile in painters as those two art centres. It is noteworthy that in the first half of the fourteenth century a group of able painters at Siena were carrying on a parallel movement to that of Giotto at Florence. Chief among these was Simone de Martino and Ambrogio Lorenzetti. Siena continued to be celebrated for excellent masters throughout the fifteenth century, and even later.

On the whole, however, the Florentine school surpasses in importance all others in Italy. Giotto reigned among his contemporaries without a rival for genius, and those who were his pupils, as a rule rose no higher than to the position of servile imitators. The sole exception was Orcagna, whose style was distinguished by richer decoration and brighter colour. In the fifteenth century Florence reached the highest period of her artistic splendour, and evolved an almost naturalistic school, which was founded by Masolino and Masaccio. In the same period the Florentine artists were divided into three groups—(1) Botticelli and others, who were distinguished by strong action and dramatic force; (2) Ghirlandaro and his pupils, who displayed a realistic and vigorous individuality; (3) Ghilberto Verocchio and his

followers, Leonardo da Vinci and Lorenzo di Credi, who were sensitive to the influence of the arts of the sculptor and the jeweller. Monte Oliveto was remarkable for his masterly treatment of the nude, and was a factor in moulding the taste of Michael Angelo, whose gigantic artistic genius no modern has been found to equal.

The sixteenth century in Florence was chiefly noted for the rapid decline of originality in art, and the idolatrous imitation of Michael Angelo's inimitable style. Between the end of the fourteenth and the beginning of the sixteenth century the Umbrian school produced many painters of the highest reputation, grouped around various centres. Among these centres was Borgo San Sapoloro, where Piero della Francesca was born. The Paduan school was adorned by the great name of Andrea Mantegna, pupil of Squarcione. Andrea Mantegna influenced, and was influenced by, the Venetian school. Arezzo produced Lorenzo di Bicci, Spinella di Luca, and others. But Venice did not become prominent till the fifteenth century. Some years later, technical methods were introduced from Flanders by Antonello, of Messina, who was said to have learnt the secret of an oil medium from the Van Eycks. Bellini is one of the chief glories of the Venetian school, as also, though in a minor degree, his brother, Gentili, and Vittore Carpaccio. In the century following, Venice produced a class of painters which, for splendour of colour and technical power, has never been rivalled, though the sweet religious sentiment of the earlier Venetians soon departed from it. The chief names of this period are Titian, Palma Vecchio, and Lorenzo Lotto, the latter being an eminent portrait painter—a branch in which Venice occupied the highest rank.

In the sixteenth century, Tintoretto and Paul Veronese were supreme. The Brescian school produced two very illustrious names—Moretto and his pupil, Moroni—both portrait painters of surprising power. After 1470, an intimate connection sprang up between the schools of Ferrara and Bologna. Many from the former settled in the latter place. The three Caracci and Guido were immensely admired in their day and until the middle of the nineteenth century, when a reaction set in against early Italian art. Modena and Parma are imperishably allied with the names of Correggio and his pupil, Parmigiano. Boccaccino was by far the ablest painter of the small Cremona school.

In the fifteenth and sixteenth centuries Milan had one of the most important schools in Italy. Foppa, Solario, and Leonardo da Vinci, though trained in Florence, created the modern Milanese school. At the same time, it ought to be remembered that most of the pictures attributed to da Vinci were really the work of his pupils. As for the Neapolitan school, its early history is chiefly mythical. According to Mrs. Butler, the leading masters of the eighteenth century were Cavalletto and Battista.

The German school of art had a common origin with the French; nor was it until France and Germany started upon separate national careers, under the grandchildren of Charlemagne, that German art assumed a distinctive character. Miniature painting, in connection with manuscripts, absorbed the artistic skill of the tenth and eleventh centuries. In the following three centuries no great progress was made. William of Herle and Stephan Lochmer may be mentioned as belonging to 1350. Van Eyck and Martin Schongauer belong to the fifteenth century; and, before all, Hans Holbein, to the period between 1498 and 1543. Albrecht Dürer flourished 1471-1526, and Lucas Cranach 1472-1553. Dürer is the great representative of German art in the sixteenth century, his name, with those of Holbein and Cranach, being indelibly engraved in the history of art. In the next period the thirty years' war brought art into decay, but in the eighteenth century the great names as Carstens, Angelica Kauffman, and Mengs occur.

In the present century new life came into the fine arts. Cornelius, 1783-1867, may be called the founder of the present national school of art, Overbeck, Schadow, and Führich were his contemporaries. The pupil of Cornelius was Wilhelm von Kaulbach, whose great frescoes in the New Museum at Berlin approach more nearly, in grandeur of composition and boldness of design, to Michael Angelo than any modern work of any other country. To the same monumental school belong Genelli, Fuerbach, Rottmann, and Preller. The great portraitists were Schrader and Ludwig Richter.

All classes of painting—history, landscape, and portraits, as well as sculpture—are cultivated to the highest degree. Among the living artists the great names of Adolf Menzel, A. and O. Achenbach, Anton von Werner, Lenbach, Böcklin, Gude, Defregger, Grützner, Max. Vautier, Carl Becker, Hildebrand, Baisch, Knaus, Seiler, R. Begas, may be mentioned, to show the prosperous condition of the German school of art.

The fine arts are supported by Government, and thus have become the property of the nation. Academies and important art schools exist in all the great centres. Approximately, 2700 students frequented the academies last year. Besides, there are societies in all the larger towns which, by private contribution, furnish the means to promote the understanding of the fine arts. These societies establish galleries of ancient and modern paintings of all nations. They buy valuable pictures, &c., for disposing of by lot among the members, so as to provide the households of the less wealthy with valuable objects of art. The German Association of Art represents the interest of the artists of Germany and Austria-Hungaria. Residence and presidency alternate between Berlin, Dusseldorf, Dresden, Munich, Karlsruhe, Weimer, and Vienna.

IN FLEMISH ART, Hubert and Jan Van Eyck, who flourished in the fifteenth century, are conspicuous. The elder Van der Weyden was an apt pupil of the Van Eycks, although he worked according to altered methods, in the form of *tempera* colours on impressed linen. At the beginning of the sixteenth century Flemish art showed symptoms of losing vigour under Italian influence, but before the close of that period Flanders could boast Antonio Moro, a portrait painter of the highest rank, Rubens, and Vandyc; nor do the productions of Jean Malwe, Melchior, Broderlam, P. de Champeigne, Fleming, Gonzales, Jacques, Van Oost, and Roelandt Savery cease to engage the attention of visitors to the great galleries of the European continent.

DUTCH PAINTING.—At the mention of Holland, the artist whose name rises most familiarly to recollection is that of Rembrandt, whose portraits, to the practised eye of any well-instructed critic, have no equals in the Dutch school. In the seventeenth century Dutch painters far outnumbered those of any other country. Van den Echhout was also a name to conjure with in the same branch. The principal painters of fruit and game were Melchior, Hondecoeter, Weenix, and the Leniers.

SPANISH masters, if not numerous, are singularly able; the greatest of them all in skilful execution of landscapes and in portraiture was Velasquez, and not far removed from him in standing is Murillo. Berrugueta and Alonso Cano, of Granada, have each their niche in the temple of fame. Goza and Fortuny are noteworthy as being the product of the nineteenth century, the latter having only died in 1874.

FRENCH PAINTING was almost entirely under Italian influence in the fifteenth and sixteenth centuries. Nicolas Poussin was the first to develop a native style, though it was with difficulty he could disguise the extent to which he was under the aesthetic sway of Titian. His best works represent Bacchanalian scenes, the finest of these being in the National Gallery, London. It is more particularly in his flesh-painting that he resembles the Italian master. Claude Lorrain is remarkable for the beauty of his landscapes, although not unfrequently wanting in a real study of nature. His finest productions have passed from his countrymen into the possession of Englishmen. The French school of the eighteenth century was very prolific, but, at best, mediocre and artificial. The most popular French artists of that century were Boucher, Grenze, Claude Vernet, Fragmard, and David. Those most distinguished in the first half of the nineteenth century were Prud'hon, Ingres, Horace Vernet, and Delaroche. Although only of moderate merit, these men were in great repute; but more deserved still is the favour shown to Millet, who was set down below his real value while living, but since his death he has been highly appreciated. The comparative dearth of elevated art at this period, however, is not to be wondered at when the political turmoil and bloodshed in which France was involved by the revolution which involved the death of Louis XVI. and Marie Antoinette, and the protracted wars of the first Napoleon, are taken into consideration. Regnault, a very capable painter, was lost to his country in the siege of Paris in 1871.

It is only fair to state that at present Paris possesses one of the most important schools in existence, and French painters are generally accounted supreme in drawing power and technical skill. But it must be admitted that in some instances these great merits are counterbalanced by excessive realism. Art in Paris is in a condition of most productive activity, branching out into new and often startling phases. Fortuny, though dead, makes his influence increasingly felt in France, as in Italy and Spain, and Baris necessarily wields exceptionally wide power, as the *Ecole des Beaux Arts* is resorted to by art students from all civilised countries.

The Official "Guide to the Picture Gallery

[As the conditions on which the printing of the Official Catalogue was undertaken do not admit of an adequate description of the art exhibits being given in the present volume, the Executive Commissioners have issued a Separate ART CATALOGUE, containing fuller particulars of the several collections than were possible under the terms of the contract for printing the Official Catalogue.]

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Works of Art.

Class 1.—Oil Paintings.

- 1 Ranzoni, G., Vienna.—Oil paintings.
- 2 Wertheimer, G., Vienna.—Oil paintings.

Class 2.—Various Paintings, Drawings, &c.

- 3 Tyrolese Glass Painting and Cathedral Glassworks of Neul'auser, Dr. Jele & Co., Innsbruck (Tyrol).—Stained glass.
- 4 Vogel, A., Innsbruck.—Paintings on canvas.

- 5 Zasche, J., Vienna.—Painted porcelain and china.

Class 3.—Sculpture and Die Sinking.

- 6 Schmalzl, J. B., & Co., St. Ulrich (Tyrol).—Sculpture in various forms for churches.
- 7 Vogel, A., Innsbruck (Tyrol).—Sculpture on wood.

Class 5.—Engravings and Lithographs.

- 8 Holzel, E., Vienna.—Chromos and lithographs.

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- 27, 31, 79, 43 Baron, T., 237 St. Servais, Namur.—"Autumn's Evening Fog" (Ardennes), "Summer's Morning" (Ardennes), marine view, etc.
- 15, 76 Beernaert, E., 20 Rue du Buisson, Brussels.—"View of Petersheim," "Burgh-on-the-Scheldt."
- 58, 72 Bossuet, F. A., 165 Rue Royale, Brussels (not for competition).—"The Harbour of Trifa" (Balearic Islands).
- 44, 108, 112 Boudry, S., 98 Rue Carnot, Antwerp.—"Home in the Campine."
- 3 Bourcet, H., 19 Rue Montebello, Antwerp.—"The Fisherman's Daughter" (Holland).
- 41, 101 Bourotte, A., 8 Rue du Télescope, Brussels.—"A Scene of Divorce," "Orphans."
- 81 Bullerkotten, L., Eykevliex-lez-puers, Antwerp.—"The Village of Argenteau."
- 39 Carabain, J., 54 Rue Vifquin, Brussels.—"The Fishmarket at Genoa."
- 105 Chappel, E.—"Ells."
- 46, 104 Claus, E., Astene, Flandre, Orientale.—"Sylph."
- 36, 68 Cogen, F., 31 Rue de la Charité, Brussels.—"Widows and Orphans of Katwyck" (Holland).
- 47 Dael, A., 81 Chausseé de Courtrai, Ghent.—"At Rest."
- .30, 60 De Beul, H., 84 Rue de la Consolation, Brussels.—"A Shepherd at Rest," "The Hollow Way."
- .8, 53 De Hemptinne, J., 10 Quai de Willebroeck.—"Gladiolas," "Bouquet of Pinks."
- 10, 26, 103 De Keghel, D., 24 Rue de la Monnaie, Ghent.—"Oysters," "Wedding Gifts," "Chrysanthemums."
- 113 De Pape, L. C. M.—"On the Beach."
- 77 Dell'Acqua, C., 83 Rue du Prince Royal, Brussels.—"Delilah."
- 13 De Franes, H., 25 Rue de la Charité, Brussels.—"View of Couvin, Ardennes."
- 40 Delperee, E., 35 Rue Fabry, Liège.—"At Prayer."
- .56, 57 De Pratere, E.—"In the Snow," "Cows Drinking."
- .19 De Villermont, Marie, Couvin.—"The Willows."
- .71 Devriendt, J., 38 Rue de Locht, Brussels.—"The Last Days of the Virgin at Jerusalem."
- .42, 90, 95, 100 Farasyn, E., 2 Rue Shuld, Antwerp.—"Consolation."
- .102 Gasparoli, Mary, 19 Rue Van Maerlant, Brussels.—"Good Luck."
- 91 Geelhand, E.—"Mittenbergen."
- 23 Gerand, J., 46 Rue Dupont, Brussels.—"Men of the Lake Cities."
- 34, 65, 94 Gerard, T., 2 Rue Marie-Christine, Brussels.—"Compulsory Education," "The Faithless One."
- 98 Godding, E., 23 Rue des Nerviens, Antwerp.—"Cousin, we are Listening!"
- 55 Hennebicy, A.—"Before St. Peter's Church, Rome."
- 66 Herbo, L., 28 Rue des Drapiers, Brussels.—"The Enchantress."
- 52 Hoorickx, H. G. E., 85 Rue de Hennin, Brussels.—Landscape—"The Downs, Campine."
- 54 Huysmans, J. B.—"Chlaoutchia Conjuring in a Harem."
- 63 Janssens, J., 12 Grand-place, Antwerp.—"In the Forest."
- 64 Jeanne-Stroobant, Marguerite, 101 Rue de Hennin, Brussels.—"A Spring Harvest."
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- 96 Lamoriniere, F.—"Under a Pinewood."
- 37, 61 Meunier, G., 16 Rue Maes, Brussels.—"A Bouquet of Lilacs," "The Mandolin."
- 22 Montigny, J. L., Tervueren, near Brussels.—"A Herd of Cows in the Ardennes."
- 74 Ooms, K., 52 Avenue van Eyck, Antwerp.—"A Scene of Spanish Fury, Sacking of Antwerp, 1576."
- 86, 87 Paulin, M.—"A Flemish Interior," "The Coquette."
- 67, 82 Plasky, E. J. B., 30 Rue d'Ecosse, Brussels.—"A Marsh, Autumn in the Campine, Genck;" "A Rainy Day in Autumn."
- 14, 20 Plumot, A., 34 Rue des Nerviens, Antwerp.—"Shoeing Smith," "The Hollow Way."
- 1 Portaels, J., Director of Fine Arts Academy, 25 Rue de la Charité, Brussels.—"The Flower Girl of Trieste."
- 11 Rul, H., Merksem, near Antwerp.—"The Pond, Evening."
- 50, 80 Ryssens de Lauw, J. M., 39 Rue du Péage, Antwerp.—"Still Life" (two).
- 4 Seeldrayers, E., 9 Rue du Marteau, Brussels.—"Instruction at the Veterinary School."
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- 28 Soubre, C., 14 Rue des Augustins, Liège.—"The Convalescent."
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- 33, 75 Triest, C., 21 Rue Geefs, Brussels.—"Spring Flowers," "Lilacs."

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- Class 1.**
- 45, 70 Tschaggeny, C., 1 Rue de l'Abondance, Brussels.—"A Ploughman at Rest," "A Stallion."
- 6 Van Acker, F. M., 60 Quai de la Potterie, Bruges.—"Woman Cutting Cabbages."
- 84 Van Damme, F., 20 Rue Rogier, Brussels.—"A Landscape in Flanders."
- 83 Van Damme-Sylva, E. E., 56 Rue Van der Linden, Brussels.—"Pasturage at Willemsdorp, Holland."
- 25 Van der Meulen, E., 15 Rue de la Buan-derie, Brussels.—"Two Friends" (bloodhound and Yorkshire terrier).
- 16 Van der Bussche, E., 247 Rue Rogier, Brussels.—"Youth."
- 5, 97 Van Egelen, L., 5 Place Conscience, Antwerp.—"The Fencing Lesson."
- 12, 53 Van Keirsbilck, J., 59 Rue Wiertz, Brussels.—"Country Love," "Entering a Gondola."
- 99 Van Kuyck, F.—"Where is your Master?"
- 62 Van Leemputten, F., 52 Rue Van der Linden, Brussels.—"The Wharf at Doel, Holland."
- 2, 85 Van Leemputten, C., 48 Rue Albert de la Tour, Brussels.—"April Morning," "Sheep."
- 21, 93 Van Luppen, J., 50 Rue de la Province Sud, Antwerp.—"View of Mouilins, near Dinant."
- 35, 78 Van Seben, H., 107 Rue Goffart, Brussels.—"In the Forest, Holland;" "The Schoolboys, Holland."
- 49 Van Severdonck, J., 26 Rue du Progrés, Brussels.—"Hunting."
- 88 Van Snick, J.—"The Heckler."
- 9, 48 Van Soom, H., 152 Rue de la Province Sud, Antwerp.—"A Waterfall in Norway," "View in the Neighbourhood of Bergen."
- 106, 107 Verstraete, T., 34 Courte Rue du Naneau, Antwerp.—"A Summer Evening," "A Farm Yard."
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- 114, 118, 122 Van Acker, F. M., 60 Quai de la Potterie, Bruges.—"Childish Joys," "A Potato-Cleaner," "A View of Bruges."
- 119 Wauters, E.—"Madame Melba."
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- 133—135 Comein, P., 47 Rue Van Dyck, Brussels.—"Winter," "The Young Mother," "The Reprof."
- 136—138 Fraikin, C. A., 182 Chaussée de Haecht, Brussels.—"A Mother," "Love Asleep," "Venus Anadyomene."
- 189 Koch, A.—"The Sawyer" (plaster cast).
- 140 Lefever, E. F., 68 Rue Josaphat, Brussels.—"Cinderella."
- 144 Van den Kerckhove, J. F., 224 Rue du Progrès, Brussels.—"Isha."
- 145, 146 Van Luppen, F., 5 Rue Doolhof, Antwerp.—"Hope" (bust), "Joyous Innocence" (bust).
- 141 Van Beurden, A., Professor of the Academy of Fine Arts, 11 Rue de la Corne, Antwerp.—"The Lesson" (group).
- 142, 143 Van Biesbroeck, L. P., Rue d' Egmont, Ghent.—Bust of a man, "Crécence" (bust).
- 147 Willems, J., Professor of the Academy of Fine Arts, 55 Leopold-square, Brussels.—"Triboulet."
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- 73, 29 Belgian Royal Commission, Brussels.—A bust of Leopold II., King of the Belgians; bust of Queen of the Belgians; portrait of Leopold I., etc.
- 127, 128, 130, 124, 125 Danse, A. M., Rue des Cinq Visages, Mons.—"A Monk at Prayer," portrait of Sarah Bernhardt, an etching of Rubens, etc.
- 126, 129 Greuse, L. J., 4 Rue des Cinq Visages, Mons.—Portrait of the wife of Guillaume Moreel, after Memling; "St. John," after Donatello.

FINLAND.

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Class 5.—Engravings and Lithographs.

- 1 Sundman, Gosta, 12 Union-street, Helsingfors, Finland.—Chromo lithographs, illustrating natural history, fishes, birds' eggs, flowers. For zoological, chartographic, and microscopic works, such as the marvellously illustrated works, "The Fishes of Finland" and "Eggs of Finnish Birds," with English and Swedish text—see "The Field," No. 1717, for Nov. 21, 1885.

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- .**3 Aviat**, J. C., 32 Rue St. Petersburg, Paris.—"Zuleika."
- .**47 Barilliot**, L., 16 Rue de la Tour d'Auvergne, Paris.—"Normandy Pastures, Morning;" "Animals on a River Bank, Normandy."
- .**4, 85 Bayard**, E., Rue Notre Dame des Champs, Paris.—"An Affair of Honour," "Reconciliation."
- .**61, 63 Beauverie**, C., 29 Rue Gabrielle, Paris.—"The Valley of Optevon," "Woman at a Well."
- .**22, 53 Berne-Bellecour**, E., 33 Avenue de l'Opera, Paris.—"Arab Prisoners in the Isle of St. Marguerite," "At the Gulf Juan."
- .**9 Berton**, P. H., 77 Rue de Miromesnil, Paris.—"Washhouses, Normandy," "Cemetery on the Seashore."
- .**5, 57 Bonnefoy**, H., 42 Rue Fontaine, Paris.—"The Little Neighbours," "The Shepherd's Bed."
- .**1, 81 Bourgeois**, E. V.—"Creek of the Claire, Isle of Noirmoutier, Vendée;" "The Tops of the Briars, Isle of Noirmoutier, Vendée."
- .**52, 170 Cherbon**, O., 147 Boul. Péreire, Paris.—"Mill of La Croux, Haute-Vienne," "Dielette" (sea view).
- .**48 Colin**, P., 8 Rue Furstenberg, Paris.—"Apple Trees at the Loysel Farm."
- .**45 Coururier**, L., 31 Boul. Berthier, Paris.—"On the Alert."
- .**13, 40 Cros**, H. E., 4 Rue Dumont Thourville, Paris.—"The Red Blouse," "Calm at Sea."
- .**65, 67 Crouan**, Mme. J.—"For Christmas," "Chrysanthemums."
- .**66 Defaux**, A., 49 Rue Boul. Rochchouart, Paris.—"The Forest of Fontainebleau," "Banks of the Loir at Montigny."
- .**60 Delange**, P. L., 22 Rue St. Ferdinand, Paris.—"The Wet Nurses Bench at the Orphanage of St. Valery."
- .**24 Delanoy**, H. P., 32 Rue des Dames, Paris.—"Glory and Love."
- .**28 Delobbe**, F. A., 27 Rue d'Alesia, Paris.—"The Young Haymaker."
- .**35 Deyrolle**, T., Concarneau, Finisterre.—"Hay-making."
- .**16 Destrem**, C., 127 Rue Notre Dame des Champs, Paris.—"The Arrival."
- .**18, 51 Durst**, A., 51 Avenue de la Défense de Paris, Puteaux.—"Chickens Feeding," "Chickens in the Meadow."
- .**77—79 Du Buisson**, Avice, London.—"Tropical Fruit and Vegetables"
- .**2, 8 Fleury**, Mdlme. F., 37 Rue Fontaine, Paris.—"The Milliner," "Flirting."
- .**41, 58 Fournier**, L. H., 76 Rue Bonaparte, Paris.—"Sabine Peasant."
- .**20, 74 Frere**, C. E., Ecouen, Seine et Marne.—"Vine Press at Bongardon," "Chatel Guyson, Auvergne;" "In the Snow."
- .**38 Gaillard**, L., 15 Rue Pouchet, Paris.—"Oaks, near the Racecourse, Anteuil."
- .**7, 43 Garaud**, G. C., 117 Rue Notre Dame des Champs, Paris.—"A Farm at Peyre," "Cascades at Carnay-la-Ville."
- .**33 Grivolas**, A., 9 Rue du Val de Grâce, Paris.—"At the Florist's."
- .**82 Guillot**, E. A., 10 Rue Mechain, Paris.—"Summer."
- .**19, 29 Huas**, P., 11 Rue Chateaubriand, Paris.—"Grasshopper," "Storks."
- .**46 Iwill**, M. J., 11 Quai Voltaire, Paris.—"Evening at Morialmes, Marche."
- .**34 Jobard**, H. H., Cher, Chez. M. Marchand, 15 Rue des Petits Champs, Paris.—"A Corner of the Farm at Maurepas, Seine et Oise."
- .**68 Jourdan**, T., 18 Rue de la Bibliotheque, Mar-selles.—"Taking Shelter from the Storm."
- .**25 Lagrast**, Mdlle. M., 6 Rue Demarquay, Paris.—"Wild Flowers."
- .**75 Lahaye**, A. M., 84 Rue de Moreau, Paris.—"Paquita."
- .**55, 64 Landelle**, C., 21 Quai Voltaire, Paris.—"Algerian Girl Playing the Darbouka," "Italy."
- .**49, 54 Landre**, Mdlle. L. A., 238 Rue Faubourg St. Honore, Paris.—"Winnowing, Britanny;" "Returning from the Market."
- .**76 Laporte**, E. H., 45 Rue Joubert, Paris.—"Rose and Butterfy."
- .**83 Lejeune**, E., 14 Rue Boissonade, Paris.—"The First Rendezvous."
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- .**37, 72 Maillart**, D. U. N., 6 Rue Furstenberg, Paris.—"The Young Victim," "Child and Goats."
- .**39 Maageant**, O. H., 104 Avenue de Paris, Ver-sailles.—"Charity."
- .**12, 14, 44 Martin**, H., 89 Rue Deufort, Roch-eau, Paris.—"Repentance," "Study."
- .**32 Mathieu**, Mdlle. M., 13 Rue Moussart, Paris.—"Spring."
- .**56, 84 Menard**, E. R., 3 Place de la Sorbonne, Paris.—"A Painter," "Evening."
- .**58a Michel**, C. H., 18 Rue de Varenne, Paris.—"Study of an Italian."
- .**27 Moutte**, A., 110 Rue Sylvabelle, Paris.—"Ploughing."
- .**69 Poirier**, P. T., 62 Rue Rodier, Paris.—"Spring."
- .**76 Richomme**, J., 5 Cité Pigalle, Paris.—"Around the Fountain."

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- 42 Rixens, J. A., 5 Rue Mogador, Paris.—“Glory.”
 23 Rochegrosse, G., 20 Rue Chaptal, Paris.—“Mylitta—Study of a Head.”
 50 Rouch, Mdlle. C., 10 Rue Durantin, Paris.—“Oranges.”
 78 Rozier, D., 34 Boul. de Clichy, Paris.—“Sea Fish—Still Life.”
 36, 59 Sain, E. A., 80 Rue Taithont, Paris.—“Andromede,” “Assunta.”
 6 Salles-Wagner, Mdme. A., 44 Rue Blanche, Paris.—“Hébé.”
 15 Serrier, G. P. L., 55 Rue de Douai, Paris.—“Le Choisi—Seine et Marne.”
 10 Tournier, L., 9 Rue Voltaire, St. Germain en Laye.—Portrait of Madame Sarah Bernhardt.
 11 Trupherne, —, Paris.—“School Workshops in the Paris Communal Schools.”

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 98 Avice du Buisson, London.—“Beau Bassin, Mauritius Island” (water-colour).
 117 Barillot, L., 16 Rue de la Tour d’Auvergne, Paris.—“Animals on the Banks of a River.”
 93, 107, 111 Bida, A., 22 Boul. St. Michel, Paris.—“Michael Angelo Sleeping,” “Jesus in the Garden of Olives,” “The Deposition of Christ.”
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 89, 96, 121 Courant, M., Poissy, Seine et Oise.—“Honfleur,” “End of the Harbour,” &c.
 94, 119, 120 Dornois, A., 5 Square du Roule, Paris.—Bas reliefs of the Arch of Titus.
 90, 99 Gauthier, Mdme. G., 9 Rue Bonaparte, Paris.—“Low Tide at Havre de Pas, Jersey;” “Setting Sun at Oban, Scotland.”
 62 Viger, the late H. (Mdme. Viger, 7 Passage Stanilus, Paris).—“Recollections of Malmaison.”
 26, 31 Vuagnat, F., 54 Fauba, Poissonnière, Paris.—“Shores of the Lake of Geneva,” “Animals Drinking.”

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 131 Bastet, V. A., 36 Rue Vavin, Paris.—“Abandoned” (bronze statuette).
 132 Blanchard, G., 74 Rue Madame, Paris.—“Girl of the Land of Canaan.”
 128, 133 Chatrousse, E., 253 Boul. Raspail, Paris.—“Spring,” “Reading.”

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125, 134 Houssin, E. C., 37 Rue d’Enfer-Rochereau.—“A Page” (two).

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127 Longepied, L. E., 77 Rue d’Enfer-Rochereau, Paris.—“Fiacinière.”

129 Michel, G., 288 Rue du Faubourg, St. Honoré, Paris.—“Love Conquered.”

126 Vasselot, A. Mde.—“Fishing Boy.”

136 Vaudet, A. A., 67 Rue de la Veviene, Paris.—“The Fountain,” “Socrates,” “Antique Egyptian Head,” “Cuvier,” “Molière,” “Je la Tiens,” &c.

Ministry of Public Instruction and Fine Arts—Specimens from the National Manufacture of Porcelain at Sévres.

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 108, 110 Buhot, F., 71 Boul. de Clichy, Paris.—“Westminster Palace” (etching), “Westminster Bridge” (etching).
 106, 118 Chapon, L. L., 68 Rue Billiard, Paris.—“The Hemicycle of School of Fine Arts at Paris” (after P. Delaroche), “Eve” (after Armand Berton).
 92, 101, 124 Country, C. L., 25 Rue Bréa, Paris.—“Milton dictating Paradise Lost to his Daughter,” “Visit to the Baby,” “Portrait of Hélén Forman.”
 94 Dornois, A., 5 Square du Roule, Paris.—“Hollow-road at Montmorency.”
 109, 115 Jacquet, A., 37 Rue des Acacias, Paris.—“The Months” (after Cabanel), “Portrait of Carl Vernet” (after Lepière).
 95, 97 Leguillermie, F. A., 4 Rue Rob. Estienne, Paris.—“The Two Families” (after Munkacsy), “For the Father’s Birthday” (after Munkacsy).
 91, 123 Lamotte, A., 6 Rue Hippolyte Lebas, Paris.—“Recollections” (after Choplin), “Mignon” (after Jules Lefebre).
 104, 105 Letoula, J., 97 Boul. St. Germain, Paris.—“Charlotte Corday,” “The Grandmother.”
 100, 116 Lunols, A., 7 Rue Nicolas Hamel, Paris.—“The Graffard Hall” (after Béraud), “The Fisherman’s Wife” (after U. Butin).
 88, 112 Mathey-Doret, H., 3 Avenue de Villiers, Paris.—“The Last Moments of Mozart” (after Munkacsy), “The Heroes of the Village” (after Munkacsy).
 114 Rapine, M. H. J., 166 Rue de la Plaine, Boulogne, Seine.—“The Annunciation to the Shepherds.”
 118 Waltner, C. A., 16 Avenue de Bretenil, Paris.—“Christ Brought Before Pilatus” (after Munkacsy).

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216 Arndt, Fr., Dresden.—“Isle of Capri.”
112, 151, 166 Arnold, C. T., Weimar.—“Remain Behnd,” “Wounded to Death,” “A Woman Frightened by Cows and Goats.”
221, 226 Arnz, A., Dusseldorf.—“Still Life” (two).
61 Baas, M., Hamburg.—“White Poplars.”
41, 249 Baisch, H., Karlsruhe.—“Highway in Rainy Weather, Holland;” “Dutch Pasturage, Morning.”
87 Bantzer, C. N., Dresden.—“Giulia.”
116 Becker, A., Karlsruhe.—“The Port of Rapallo, Upper Italy.”
24 Becker, C., Berlin.—“A Venetian Girl.”
81, 125, 228 Beek, T. von der, Dusseldorf.—“A Game of Forfeits,” “Going to School,” “Meditation.”
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148 Beinke, F., Dusseldorf.—“An Idyl.”
51 Bennewitz, Loefen C. von, Berlin.—“A Forest Lake in Autumn.”
242 Bennewitz, jun., Loefen C. von, Dusseldorf.—“Spring Time.”
4 Berger, E., Munich.—“The Dream of the Reviving Well” (Jung brunnen).
287 Bernuth, E. von, Dusseldorf.—“Forest Lake.”
106 Bcde, W., Dusseldorf.—“Mount Ortler.”
11 Bohm, R., Dresden.—“Hay Time, Thuringia.”
52 Bokelmann, C. L., Dusseldorf.—“A Christmas Fair.”
126 Boppo, C., Dusseldorf.—“Your Health.”
104, 170 Borgmann, P., Karlsruhe.—“A Bawler,” “A Sybarite.”
42, 135 Brauer, F., Berlin.—“Strand of Vilm, Rugen, Baltic;” “An Evening on the Roofs of Zanzibar.”
62, 102, 250 Brendel, A., Weimar.—“On the Pasture Grounds,” “An Old One and a Young One,” “Under the Trees.”
174 Bunke, F., Weimar.—“A North German Town.”
218 Chelminski, T. von, Munich.—“A Noble Family Travelling (18th Century).”
213 Dahl, H., Dusseldorf.—“The Treacherous Shadow.”
66 Dill, L., Munich.—“Evening in a Lagoon Village.”
64 Douzette, L., Berlin.—“Moonlight Night, Dutch Canal.”
9 Duntze, T., Dusseldorf.—“Winter Afternoon, Gondorf-on-the-Moselle.”
130 Eckenbrecher, T. von, Potsdam.—Sea-piece.
85, 173 Ehrentraut, T., Berlin.—“The Last Farewell,” “Amusing Lecture.”
146 Eichhorn, T., Weimar.—“Ebb Tide, Holland.”
98, 172 Emele, W., Berlin.—“Departure of Swedish Soldiers from Rothenburgh (17th Century),” “Good Morning, My Ladies.”
142 Ende, F. von, Munich.—“A Spring Morning.”
179 Engelhardt, G. H., Berlin.—“Among the Birches, Rugen.”
50, 58 Eschke, H., Berlin.—“The Watcombe Bay, Isle of Wight,” “The Polyphemus, Isle of Capri.”
38, 86, 95 Eschke, jun., R., Berlin.—“Summer Mist in Devonshire,” “A Storm on the High Seas,” “On the Pier of Gorey Harbour, Isle of Jersey.”
70, 73 Fehr, C., Berlin.—“Dairymaid” (Holstein), “Still Life.”
214 Flamm, A., Dusseldorf.—“Italian Landscape.”
234 Flugge, H., Gross Helle by Molln.—“Awaking.”
80 Forster, B. P., Dresden.—“At the Mill” (Crock).
289 Friedrichsen, E., Dusseldorf.—“A Summer Day.”
35, 71, 208 Friese, R., Berlin.—“Pursued,” “The Lion at the Spring,” “A Life and Death Struggle, Bisons.”
37 Gabl, A., Munich.—“Bavarian Tap” (the Branschenke).
32 Gavel, Ch. von, Munich.—“A Learned Man.”
57 Geertz, T., Dusseldorf.—“Struggling for Life and Death.”
169 Geherts, C., Dusseldorf.—“Nasty Little Animals.”
217 Grass, T. A., Dusseldorf.—“A Mother and Her Child.”
101, 209, 215 Grebe, F., Dusseldorf.—“A Norwegian Harbour,” “A Norwegian Fjord.”
97, 240 Gronland, R., Berlin.—“Fruite,” “Part-ridges.”
1 Gronvold, M., Munich.—“Christ in Solitary Retirement” (St. Mark i. 35).
168 Grossé, T., Dresden.—“The Judgment of Midas.”
55 Grobe, G., Hanau.—“Dutch Fishermen.”
197 Grun, T., Berlin.—“The Holy Virgin and Christ.”
229 Grutzmer, E., Munich.—“A Country Theatre,” A sketch.
10 Gude, Hans, Berlin.—“After the Storm, Norwegian Coast.”

and Special Catalogue of Fine Arts" can be bought in the Exhibition,

and is indispensable to every Visitor.

- "74 Gunther-Naumburg, O., Berlin.—"Old Berlin, the Rosengasse."
- "36 Habermann, A. von, Munich.—"Saint Catharin."
- 167 Hallatz, E., Berlin.—"My Best Friend."
- 199 Hammer, E., Weimar.—"Devotion."
- 192 Hampel, Charlotte, Munich.—"Mockers."
- 175 Hartung, H., Dusseldorf.—"Spring Time."
- 227 Hedinger, E., Berlin.—"Fruits."
- 225 Hellen, C. von der, Dusseldorf.—Upper Hessian landscape—"The Vogelsburg."
- 47 Hermann, H., Berlin.—"Saturday at the Dordrecht."
- 132 Hermes, T., Berlin.—"Evening" (Havel River).
- 33 Hildebrand, E., Berlin.—"Anxious Moments."
- 69, 205 Hirdufrenes, R., Munich.—"The Ammer Lake," "A Disturber."
- 30, 110 Hoecker, P., Berlin.—"Ready!" "Remembrance to Zealand,"
- 129 Hochmann, F., Karlsruhe.—"A Horse Market."
- 7 Hoff, C., Karlsruhe.—"Farewell."
- 140 Hoffmann von Fullersleben, F., Weimar.—"Winter Evening, Thuringia."
- 119 Hofmann, T. M. H., Dresden.—"Nymph and Swan."
- 194 Huth, T., Berlin.—"Pilot Boat, English Coast."
- 124 Hubner, E., Dresden.—"Iphigenia."
- 159 Hummel, C., Weimar.—"The Ruins of the Cloister Hude, in the Vicinity of Berlin."
- 92, 188 Kallmorgen, F., Karlsruhe.—"North Sea Canal," "Spring Day."
- 134 Kaufmann, Else von.—"In a Barn."
- 181 Kamecke, O. von, Berlin.—"Church, near Nobiallo, Lake Como."
- 162, 163 Kanold, E., Karlsruhe.—"Landscape, with Cassandra," "Landscape, with Antigone."
- 187, 144 Katsch, H., Berlin.—"Bedouin Woman in Tunis," "A Girl from Mouchgut, Rugen."
- 157 Kalitsch, W. von, Dusseldorf.—"Boar Hounds."
- 85 Keller, F., Karlsruhe.—"Christ."
- 72, 212 Kirberg, O., Dusseldorf.—"The First-born," "An Earnest Question."
- 187 Klein, F. E., Dusseldorf.—"Reverie."
- 109 Knabel, K., Munich.—"Was Sich Liebt Neckt Sich."
- 120 Koch, C. F., Berlin.—"Dressing."
- 3, 25 Koerner, E., Berlin.—Landscape from the Nile—"Moonlight;" landscape—"Evening."
- 48 Kohnert, H., Berlin.—Heath landscape (Mark Brandenburg).
- 29 Konig, H., Munich.—"Desdemona Justifying Herself from Her Escape with Othello against Brabantio and the Senate of Venice."
- 2 Koken, G., Hanover.—"Winter."
- 77 Krausse, E., Dresden.—"A Saxon Country Girl."
- 222 Leinweber, H., Dusseldorf.—"Friendly Service."
- 44, 206 Leistikow, W., Berlin.—"A Summer Morning on the Beach, Isle of Rügen;" "The Evening Bell."
- .247 Lessing, H., Berlin.—"On the Stairs of the Convent of Cochem, Moselle."
- 246 Lippa, R., Munich.—"A Street in Venice."
- 63 Ludwig, A., Berlin.—"Mamy."
- 75 Ludwig, C., Berlin.—"Chestnut Grove, Valley of the Tessin."
- 79, 156 Lulves, T., Berlin.—"After Dinner," "An Agreeable Interlude."
- 223, 235 Maecker, F., Berlin.—"After the Shower," landscape.
- 219, 236 Mali, Chr., Munich.—"Naples," "Evening at the Village Pond."
- 80 Marc, W., Munich.—"A Cloister Garden."
- 115 Meissner, O., Dusseldorf.—"View from Svolvaer, Holoden Islands."
- 201 Meckel, A. von, Karlsruhe.—"A Girl from Bethlehem."
- 43, 54 Metzner, A., Dusseldorf.—"The Oster Lake and the Benedictinerwand in Upper Bavaria," "The Kaiser Mountains, in the Tyrol."
- 190 Meyer, G., Munich.—"Cleopatra."
- 117, 233 Meyer, H., Berlin.—"Beyond the Pale," "The Reapers."
- 14, 18, 191 Michael, M., Berlin.—"In the Church," "A Young Country Woman," "An Old Man."
- 181 Moller, N. B., Dusseldorf.—"Loen in the Northfjord, Norway."
- 48 Munthe, L., Dusseldorf.—"On the Beach."
- 128 Muller, C. W., Dresden.—"Frinzpath at the Brand, Saxon Switzerland."
- 78, 200 Muller, K., Berlin.—"An Autumn Evening," "A Winter Evening."
- 96 Nelson, E., Berlin.—"A Scythe Forge in Upper Bavaria."
- 143 Nordenberg, B., Dusseldorf.—"A Sunday Morning."
- 53 Nordenberg, H., Dusseldorf.—"The Neighbour's Visit."
- 160, 195, 240 Normann, A., Berlin.—"The Narofjord, Norway;" "The Saltenfjord, Norway;" "Norwegian Fjord."
- 49, 118 Ockel, E., Berlin.—"No Thoroughfare," "An Autumn Evening" (Mark Brandenburg).
- 153 Ortlieb, F., Munich.—"The Postilion."
- 232 Pighlhein, B., Munich.—"Mortitur in Deo."
- 91 Piloty, C. von, Munich.—"Beneath the Arena."
- 123 Piltz, O., Berlin.—"Whitsuntide Decorations."
- 84, 178 Platner, H., Dusseldorf.—"Grandma's Delight," "Checker-board."
- 196 Pflugradt, P., Berlin.—"A Village in Mecklenburg."
- 59 Pohle, H., Dusseldorf.—Park landscape and castle terrace.
- 18, 23, 58 Passart, F., Berlin.—"Herrenchimsee and the New Castle;" "The Tower of Justice;" "Porticus of the Abbey Engelberg, Switzerland."
- 161 Press, O., Berlin.—"The Hardangerfjord, Norway."
- 153 Preuschen - Schmidt, H., Munich.—"Cleopatra."
- 19, 182 Puteani, F. von, Munich.—"Quarrelling Venetian Females," "A Scene of the Venetian Carnival."
- 141 Rabe, O., Munich.—East Prussian landscape.
- 238 Ravenstein, P. von, Karlsruhe.—"A Scene Before an Osteria in Albano."
- 220 Reinhirz, C., Munich.—"At the Brook."

- 186, 251 Bettich, C., Munich.—“A Morning at the Forest Lake,” “A Morning Promenade at the Baltic Coast.”
- 248 Riess, P., Weimar.—“Moonlight, Holland.”
- 65 Robbecke, M., Munich.—“A Farewell.”
- 21, 82 Rogge, W., Munich.—“Children in the Wood,” “A Condolatory Visit.”
- 26 Roux, K., Mannheim.—“The Valley of the Tsar.”
- 245 Rudisuhl, H., Karlsruhe.—“Evening.”
- 145 Rummelspacher, T., Berlin.—A Forest Landscape.
- 55, 136, 164 Ruths, V., Hamburg.—“The Fire Lake, Halemaumau, Kilanea Crater, Hawaii;” “Hessian Landscape,” “A Summer Day in the Forest.”
- 118, 166 Saltzmann, C., Berlin.—“The Borgia Bay, Magellan Straits;” “The Cape of Good Hope.”
- 231 Schaefer, M., Berlin.—“Flirtation.”
- 154, 185 Schaefer, L., Dusseldorf.—“Italian Girl Selling Fruit,” “Praying Child.”
- 15, 83 Schauss, F., Berlin.—“Three Friends,” “A Birthday.”
- 38 Schneider, M., Munich.—“A Roman Girl.”
- 122 Schmid-Breitenbach, F., Munich.—“How Shall I Greet him?”
- 204 Schmidt, Th., Munich.—“The Timid Adorer.”
- 203, 207 Schmitzberger, T., Munich.—“Puppies,” “Cats.”
- 155 Schlesinger, F., Munich.—“In the Forest.”
- 22, 127, 147 Schlabitz, A., Berlin.—“On the Sixth Story,” “Field Flowers,” “The Forest Tap House.”
- 45, 68 Schleicher, H., Berlin.—“Cape Arcona, Isle of Rugen,” “Moonlight Night.”
- 5 Schmidt, Herm., Berlin.—“The Ortles Group, the Tyrol.”
- 8, 243 Schnars-Alquist, —, Berlin.—“Shipwrecked,” “A Stormy Passage.”
- 139 Schuback, E., Dusseldorf.—“Coming Home.”
- 100 Schulze, T., Dresden.—“A View in the Tyrol.”
- 39 Schonleber, G., Karlsruhe.—“Spring Time in Swabia.”
- 138 Schex, T., Dusseldorf.—“The Passage.”
- 6 Scholtz, T., Dresden.—“Hermann and Dorothaea.”
- 76, 121 Schutze, W., Munich.—“A Little Sharpshooter,” “Lizzy and Her Favourite.”
- 90 Schweitzer, A., Dusseldorf.—“A Winter Landscape.”
- 4a Sohn, C., Dusseldorf.—“Spring.”
- 98 Sonderland, F., Dusseldorf.—“First Come I.”
- 183 Sondermann, H., Dusseldorf.—“A Happy Mother.”
- 28 Starkenborgh, T. von, Wiesbaden.—“Windy Morning in Baden,” landscape (Thuringia).
- 150 Stegmann, F., Dusseldorf.—“The View from Deutz to Cologne.”
- 31 Stichart, A., Dresden.—“Noli me Tangere.”
- 211 Strecker, C., Munich.—“Roses and Myrtles.”
- 114 Stromeyer, H., Karlsruhe.—“Shipping Flowers” (Chiem Lake).
- 111, 202 Sturm, F., Berlin.—“Heligoland,” “Moonlight” (Gulf of Naples).
- 40 Tettel, W., Berlin.—Landscape—“The Wiesenbach Horn.”
- 60 Thamm, A., Weimar.—“After the Conflagration.”
- 176 Tjardavon, J. N.—“Landscape in Thuringia.”
- 106 Tobler, V., Munich.—“Pulcinello.”
- 94 Treidler, A., Munich.—“On the Mount Pincio during the Carnival in Rome.”
- 108, 210 Tschautsch, A., Berlin.—“Grecian Maid,” “A Friendly Meal.”
- 152 Turgeus, F. W.—“Winter Evening.”
- 183 Turcke, R. von, Dresden.—Landscape from the Valley of the Rhone.
- 12 Vollmy, F., Munich.—“A Village near Geneva.”
- 16, 189 Warthmüller, R., Berlin.—“Early Autumn,” “A Birthday Present.”
- 39 Weichberger, E., Weimar.—“A Spring Evening.”
- 27 Werner, A. von, Berlin.—“Prince Bismarck Speaking in the German Reichstag.”
- 224 Wichgraf, F., Berlin.—“Little Girl from Naples.”
- 180 Wilberg, M., Berlin.—“A Tippler” (foot soldier).
- 93 Wimmer, C., Munich.—“Hunters Coming Home” (winter evening).
- 103 Windmuller, E., Dusseldorf.—“Still Life.”
- 67 Zimmermann, A., Munich.—“A Land-slip.”
- 20 Zimmermann, E., Munich.—“Wrestlers.”
- 171, 196, 244 Zimmermann, R. S., Munich.—“Drowned,” “The Fisher’s Hut,” “In the Kitchen.”
- 230 Zoff, A., Karlsruhe.—“A View from San Remo.”

Class 2.—Various Paintings, Drawings, &c.

- 283 Arnold, C. T., Weimar.—Fire screen, with flower piece, oil-painted.
- 324 Fehr, C., Berlin.—“A Sittingroom” (Pastel).
Forst, V. von der, Munster, i. W.—Glass painting—“The Prodigal Son.”
- 325 Gehrte, J., Dusseldorf.—“Was Sich Liebt Sich,” painted in water-colours.
- 281 Hesse M., Karlsruhe.—Folding screen, painted in water-colours on raw silk.
Königliches Institut für Glasmalerie, Berlin.—Painted windows for private houses and public halls.
- 279 Ley, S., Karlsruhe.—Fire screen, with flower piece, oil-painted, on gold ground.
- 326-337 Rettich, K., Munich.—Twelve paintings in water-colours.
- 328 Spangenberg, L., Berlin.—“The Parthenon Temple on the Akropolis, Athens;” painted in water-colours.

Class 3.—Sculpture and Die Sinking.

- 257 Baerwald, R., Berlin.—Bronze statuette of the late Emperor of Germany, William I.
- 253 Baumer, T. H., Dresden.—“Amor’s Delight,” statuette, cast in bronze, with pedestal in red serpentine.
- 262 Begas, R., Berlin.—“A Boy,” fountain statue, cast in bronze.

- Berlin Medal Mint (L. Ostermann),** Berlin.—Die-sunk medals, in various metals; and model for making medals.
- 289 Boese, T., Berlin.**—"The Hunting Narcissus views himself in the Water," bronze fountain statue.
- 258 Broessmann, G., Dresden.**—"Psyche in Fetters," statue, in Carrara marble.
- 268 Brutt, A., Berlin.**—A female statuette, cast in bronze.
- 270, 282 Calandrelli, A., Berlin.**—Monumental bust of H.I.M. William I., late Emperor of Germany, cast in brazed zinc, &c.
- 261 Diez, R., Dresden.**—"The Goose Thief," fountain statue, cast in bronze.
- 290a Epler, H., Dresden.**—"Gleaning Girl," statuette, cast in bronze.
- 252, 269, 273, 290 Herter, E., Berlin.**—"Peasant Girl with Deer," "Alexander Reposing," "Aspasia," "Moses Destroying the Tables of Law."
- 290b Herzog, A., Dresden.**—Equestrian statuette of the late Emperor William I., cast in bronze.
- 254 Hilgera, C., Berlin.**—"Amor," a statue in Carrara marble.
- 264 Holbe, R., Dresden.**—"Amor Feeding Young Nightingales," statuette, cast in bronze.
- 266, 280, 284 Hultsch, H., Dresden.**—"Amor," "Psyche," "Echo," three statuettes, cast in bronze.
- 259 Hundrieser, E., Berlin.**—"Going to Church," marble statuette.
- 263, 265 Kleesewalter, H., Berlin.**—"Type of the English Racehorse," cast in bronze; "A Serpent," cast in bronze.
- 288 Kruse, M., Berlin.**—"The Deadly Wounded Messenger of the Greek Crying Out the Victory of Marathon."
- 276 Ockelmann, R., Dresden.**—"Dancing Female Bacchante," statuette, cast in bronze.
- 267 Schlueter, K., exhibited by Weschke Bros., Dresden.**—"The Shepherd's Boy," statuette, in bronze.
- 274 Schweizer, O., Dresden.**—"One of Our Boys," a bust, cast in bronze.
- 256, 285 Schweinitz, R., Berlin.**—"William I., late Emperor of Germany," bust; "Frederick III., Emperor of Germany," statuette, cast in bronze.
- 277 Schulz, M., Berlin.**—"Female Bacchante and Fawn," cast in brazed metal.
- 272 Tubbbecke, F., Berlin.**—"A Boy Drinking," cast in bronze.
- 271 Uechtritz, C. von, Berlin.**—"Abraham Offering Isaac," cast in bronze; "A Girl from Naples," cast in bronze.
- 255, 287 Uphues, T., Berlin.**—"An Archer," plaster cast brazed; "Crown Prince William of Germany," plaster cast brazed.
- 280 Vordermayer, M., Berlin.**—"Domestic Industry," sculptured in oak wood.
- 275 Werner, P., Berlin.**—"The Sly Tocco," cast in bronze.
- Wimmel, P., & Co., Berlin.**—Marble portrait of Beethoven, in frame.
- Class 4.—Architectural and Engineering Drawings and Models.**
- Wimmel, P., & Co., Berlin.**—Photographs of modern monumental buildings.
- Class 5.—Engravings and Lithographs.**
- Hoppe, E., & Co., Berlin.**—Framed oleographs.
- Klimsch's Druckerei, J. Maubach & Co., Frankfurt-a-Main.**—Lithographs in gold, and colour printing on paper. Agent: J. Levy, 15 Flinders-lane, Melbourne.
- 309, 310 Klinkicht, M., Freiburg, Baden.**—Portrait of Cardinal Newman, portrait of the Right Hon. John Bright, M.P.
- 303, 804 Koepping, C.**—"Christ at the Mount Calvary," after Munkacsy; "The Morning." Etching after J. Breton.
- May, Adolf, Dresden.**—Sample books of oleographs.
- 338 Meyer, H., Berlin.**—"Field Marshal Moltke Before Paris." Engraving, after Julius Schrader.
- 339-843 Rohr, W., Munich.**—Five etchings.
- Schuster, Rud, Berlin.**—Copper engravings and etchings.
- Sterry, C., Berlin.**—"Hille Bobbe, the Harlequin Sorceress." Etching, after Franz Hals.
- Strobel, S., Neuhausen, near Munich.**—Oleographs, including religious and genre pictures, landscapes, portraits, hunting pieces. Agents: Schreiber and Schaefer, 8 Flinders-lane W., Melbourne.
- Twietsmeyer, H., Leipsic.**—Chromo-lithographs. Copy of Michael Angelo's ceiling paintings at the Sixtine Chapel, in 20 colours.
- Wasmuth, E., Berlin.**—Book, by E. Ewald —"Farbige Dekorationen alter und neuer Feit" (coloured decorations of ancient and modern time).

The Official "Guide to the Picture Gallery

and Special Catalogue of Fine Arts" can be bought in the Exhibition,

ITALY.

I.

Works of Art.

Class 2.—Various Paintings, Drawings, &c.

- 1 Boncinelli, G., and Figli, Florence.—Florentine mosaic pictures.

Class 3.—Sculpture and Die Sinking.

- 2 Andreoni, G., Pisa.—Alabaster figures.

- 3 Bertozzi, A., Carrara.—Marble statues.

- 4 Hansen & Co., Swanston-st., Melbourne.—Marble cross and head stone.

6 Mazzoni Bros., Pisa.—Sculpture.

- 7 Pacini, F., Windsor.—Marble and alabaster statuary and vases.

8 Rizzato, G., Milano.—Sculpture.

- 9 Scheggi Bros., Florence.—Sculpture.

Class 4.—Architectural and Engineering Drawings and Models.

- 10 Palazzi, Prof. R., Roma.—Ornamental designs.

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NEW SOUTH WALES.

I.

Works of Art.

Class 1.—Oil Paintings.

- 88, 55 Aldenhoven, W.—"On the Blue Mountains," "Wentworth Falls," by C. Bates.
62 Beattie, E. B.—"The Carnival de Venice," by Calle Leone.
104, 105 Beattie, Miss Emily.—"Grand Canal, Venice;" and "Ulysses Deriding Polyphemus," by L. Herrmann.
140, Carrington, Lord.—"Lord Carrington," by Frank Holt, R.A.
47—49 Corporation of Sydney.—"Bush Track," by Louis Frank; "Home Thoughts," by J. A. Bennet; "Sir John Robertson, K.C.M.G."
112 Cox C. J.—"The Bull Fight," by A. Bourland.
8—10 Cox, Dr.—Portrait, by A. Currie; "Riverina," by ditto; "Italian Lake," by Goormini.
6, 7 Cousins, J. G.—Portrait, by Godfrey Kneller; "Town of St. Leonhardt," by Edmund Hrd.
141—144 Darley, Sir F.—Portrait of late Chief Justice Forbes; portrait of late Chief Justice Dowling, etc., by Miss Bell.
27—32 Durham, G.—"Mr. Warwick Gainor," by Gladstone Eyre; portrait, by G. Stevens; "A Lagoon," by W. J. Thomas; etc.
1 Jones, S. P., M.D.—"Pheasants and Game-cock," by Ansdell.
11, 108 Jones, Dr. S.—"The Silver Cord" (after Noel Paton), by G. G. B. Shaw; "Illawarra," by Conrad Martins.
41, 51, 52, 110, 127 Josephson, J. S.—"A Discovery," by Philip Linda; "The Donkey Boy," by E. M.; "Poultry," by David de Notre, etc.
106, 106a Jones, T.—"Autumn Evening," by W. C. Piguenit; "Cottage in Switzerland," by J. Poole.
22—25 Meyer, O.—"Christ in the Temple" (after Raphael); portrait (after Guercino); "Seascape, by unknown artist; "St. Cecilia," by Raphael.
108, 109 Mitchell, J. S.—"Boundary Creek," by Louis Frank; "Bringing in the Flock," by Elder Morris.
91, 92 Mullens, J.—"Yes or No," by W. J. Thomas; landscape, by H. Moore.
147 Municipal Council of Sydney.—"Her Majesty the Queen," by Winterhalter.
107, 116, 123 National Art Gallery, N.S.W.—"Off the Track," by H. J. Johnstone; "Mount Olympus," by W. C. Piguenit; etc.
14—16 Neill, W.—"Temptation," by N. Habbey; "The Smoker" (after D. Wilkie); "Doctor Laing," by unknown artist.
117 Riley, A. J.—"Early Morning," by M. Brooks.

- 2 Riley, J.—"Archbishop Polding," by W. M'Leod.
149 Roberts, Hon. C. J.—"Mrs. C. J. Roberts, Mayoress, N.S.W., 1879."

- 36, 89, 40 Roth, J. J.—"Sunset," by G. Ferrari; "Lord Carrington," by Gladstone Eyre; "Quaker Rock" (Brontë), by G. Ferrari.
37 Sands, Mrs. J.—"The Pedlar," by Stacey Marks.
111 Smith, R.—"Dessert for the Sultan," by Geo. Lance.
50 Sydney Mechanics' School of Arts.—"Rev. Dr. Woolley," by W. M. Tweedie.
33, 146, 148, 150 The Colonial Secretary.—"Captain Cook," by Grutzney; portrait of a lady (two), by Picchi, etc.
184, 185 Thomas, W. J.—"Christ's Passion," by Lanfranco; "Adoration of the Magi," by Giorgione.
84—90, 122, 124, 125 Wallis, J. H.—"The Gamblers," by Cara-vaglio; "St. Jerome," by Tintoretto; "Scene on the Ice," by Isaac Ostade.
97, 98 Wilson, J.—"Imperial Caves, N.S.W.," "The Devil's Coach-house" (Jenolan Caves), by S. R. Bellingham.
180 Wise, B. R.—"Scene from Faust" (after Canaletti).
61, 65 Woodhouse, E. B.—"The Short-horned Bull;" "Short-horned Cow," by W. M'Leod.

Class 2.—Various Paintings, Drawings, &c.

- 4—17, &c. Aldenhoven, W.—"Interior of Toledo Cathedral," by P. Fletcher-Watson; "The Hyberthial Temple of Philo," by ditto; etc.
72 Cazeley, N.—A collection of drawings of Australian birds.
51—59 Josephson, Judge S.—"Illawarra Scene," by John Smedley; "Australian Cornfield," by ditto; "A Settler's Clearing," by ditto.
20—26 Nicholson, L.—"Camping Out" (Sydney Harbour), by John Smedley; "The Convalescent," by S. Taylor; etc.
68—71 Parkes, Sir H., G.C.M.G.—"Hakoni Taki," by John Smedley; "The Emperor's Mausoleum" (Japan); etc.
1—3 Sands, Mrs. J.—"Entrance to the Convent of St. Gregory" (Venice), by P. Fletcher-Watson; "St. Wolron's Cathedral" (Abbeville), by ditto.
95a See, J., & Co.—Set water-colour drawings, representing their fleet of steamships.
18, 19 Thomas, W. J.—Female figure, by Miss Devine; "A Girl Knitting," by De Tommasi.

and is indispensable to every Visitor.

- 47a—50 Trustees of Art Gallery, N.S.W.—**
 “Pink Terraces, New Zealand,” by T. Peerless;
 “Norton’s Basin, Nepean River,” by C. Martens.

The following exhibits of various newspapers and Institutions in the colony of New South Wales will be found, each duly labelled, at the entrance to the New South Wales Court:—

- “**Evening News**” (proprietor, Alf. Bennett).—Drawings, and various apparatus in connection with the publication.

- Picturesque Atlas Co.**—The original drawings from which the engravings are made.

- “**Sydney Morning Herald**” (Messrs. Fairfax).—Drawings, and various apparatus in connection with the publication.

- “**Sydney Bulletin**.”—Original drawings by Phil. May and Hopkins.

- “**Sydney Daily Telegraph**.”—Drawings and apparatus in connection with the publication.

- “**Town and Country Journal**” (proprietor, Alf. Bennett, Esq.).—The original drawings from which the engravings are made.

Class 3.—Sculpture and Die Sinking.

- 8-10, 13, 16, &c. Colonial Secretary.**—“Lord Palmerston,” by T. Woolner, R.A.; “Earl Russell,” by ditto; “Earl Beaconsfield,” by ditto.

- 17 Cousins, J. G.**—“Rape of the Sabines.”

- 19a Hill, R. D.**—Medallion of the late W. C. Wentworth, in bronze, by Woolner.

- 1, 3-5, 11, 12, Holt, I. J. E.**—“Playtime,” by C. Marioton; Figure of D’Epernon, by Rumondel; Figure of Joyense, by ditto, etc.

- 20, 21, 31-33, 36-46 Josephson, Judge S.**—“Acteon,” “Andromeda,” by B. E. Spenoer; “Justice Fawcett,” by A. Simmonetti; etc.

- 25, 26 Markby, J.**—“The Sister’s Charge” and “King Lear,” by Fontana.

- 2, 6, 7, 22, 23, 24, &c. Meyer, O.**—“A Satyr,” by C. Marioton; “La Cigale,” by Houdon; “La Falconière,” by Ferville; &c.

- 27, 28, 29, 47 President of Legislative Council.**—“Right Hon. W. B. Dalley,” by A. Simmonetti; etc.

- 19b** Two large Japanese bronze plates.

[NOTE.—The Fine Arts Court of New South Wales also contains a varied collection of engravings, engineering drawings, mosaic work, artistic furniture, articles of vertu, and various applications of the arts to domestic purposes and to decoration. A detailed list of these will appear in the Special Catalogue of the Court, given away by the Commissioners for New South Wales.]

The Official "Guide to the Picture Gallery

NEW ZEALAND.

I.

Works of Art.

Class 1.—Oil Paintings.

- 322, 328, 329, 330 Atkinson, R., Auckland.—Four paintings in oils.—“After School,” “Sunshine,” “A Hot Day,” “Evicted.”
- 380—386 Attwood, T. R., Auckland.—Seven paintings in oils.—“River Avon,” “Governor’s Bay,” “Morning,” “Lake Wanaka,” &c.
- 141, 142 Ball, T., Auckland.—Two paintings in oils.—“Dusky Sound, Otago;” “Smith’s Sound, Otago.”
- 406, 408—410, 432 Beetham, R., Christchurch.—Five paintings in oils.—“Lake Rotoura,” “Lake Tarawera,” “West Coast Road, Canterbury,” &c.
- 426—428 Bennett, H. S., Rangiteki.—Six hand-paintings—“Apples,” “Summer Chrysanthemums,” “Chrysanthemums,” &c.
- 278, 277, 280—283, 300 Blomfield, C., Auckland.—Oil painting—“The Hot Lake District,” &c.
- 297—299 Branfill, B. A., Nelson.—Four oil paintings—“After a Long Day on the Sheep Run,” “King Peach and His Court,” &c.
- 402, 408 Brodie, Kate S., Masterton.—Oil painting.
- 161—178 Brookes, Prof. F. A., Christchurch.—18 oil paintings, known as the Ivory type process in oils.
- 145, 158 Budden, Rosa, Christchurch.—“Study of Dead Game,” in oil.
- 121, 128 Clark, Mrs. McCosh, Auckland.—Two original oil paintings.
- 401, 411—413 Drummond, T. L., Auckland.—Four oil paintings—“Rain Clouds,” “The Manakau Harbour,” “The Shores of the Manakau,” &c.
- 387 Edmondson, G. — “Botanists’ Home, Kaukapuka.”
- Elliott, G. H., Canterbury College School of Art, Christchurch.—Seven studies in oil colours.
- Fenton, Edith, Auckland.—Set of cards of N. Z. flowers, hand-painted, in oils.
- 268, 270, 272, 276, 278, 295 Fodor, G. F., Christchurch.—Six animal paintings in oil from life; view—“Mount Cook, Early Morning,” &c.
- 126, 127 Gardiner, Nora, Christchurch.—Two oil paintings—“The Edge of the Bush,” “Our Rose.”
- 279 Gant, J., Wellington.—Oil paintings.
- 18 Grant, J., Wellington.—Landscapes and portraits of Maori chiefs.
- 150, 407, 421—426 Gear, A. H., Christchurch.—Six oil paintings.—“For Ever and For Ever,” “Maori Minister,” “English Church, Omukū,” &c.
- 333, 338, 360—364 Gibb, J., Christchurch.—Seven oil paintings of N.Z. scenery—“Oyster Dredging,” “Ploughing,” “The Bealey,” &c.
- 332, 334—337, 365 Gibb, W. M., Christchurch.—Seven oil paintings of N.Z. scenery—“Otuku River,” “Water of Leith,” &c.
- 17, 18 Gouldsmith, H.—“Lake Wakatipu and Stony Peaks, from Kinloch Bush;” view on the Teremakau, N.Z.
- 124, 151, 152 Harris, Emily C., Nelson.—Oil paintings of N.Z. flowers, birds, and berries.
- 369 Hodgkiss, I.—“An Old Brown Jug.”
- 414 Kirkwood, H. W.—“Mount Cook.”
- 147 Lilleri, A. S.—“Head of Galileo.”
- 24 Lindauer, G., Auckland.—Oil paintings—“Maori Chief,” “Maori Woman and Child.”
- 358 Merritt, Charlotte H., Wellington.—Oil painting—“Flowers from Nature.”
- Merritt, T. E., Wellington.—“Lady Jervois.”
- 133—138 Moultray, J. D., Dunedin.—Six oil paintings—“Head of Wet Jacket Arm,” “Milford Sound” (entrance), “Milford Sound” (head), &c.
- 429—431 Moultray, J. E., Dunedin.—Three oil paintings—“The Last Stand,” “A Letter from Home,” “The Battle of Te Pungarahu.”
- 269, 274 Palmer, R. G., Foxton.—Paintings—“Island Bay,” “Afternoon.”
- 321, 326—328, 331 Partridge, Beatrice, Christchurch.—Six oil paintings, three studies of flowers, three landscape paintings.
- 143 Paton, E. W.—“Bush Scene, Upper Wanganui.”
- Pattie, D. H., Blenheim.—Oil painting—“Josephus,” by Vandeyck.
- 284—294 Peele, J., Amberley.—Eleven oil paintings—“Dawn,” “A Bush Creek,” “A Snowstorm Breaking,” &c.
- Queentown, Borough of.—Oil paintings.
- 387, 388, 389 Richardson, F. H., Wellington.—Three panels in oils—“Mount Cook Lilies,” “Chrysanthemums,” “Clematis.”
- Richmond, Mrs. H. H., Wellington.—Oil painting—“Portrait of Galileo,” copied by Susie Zillery.
- 275, 215 Sheriff, G., Wanganui.—Landscape—“The Head of Lake Wakatipu;” a natural history study—“A Victim of the Keas.”
- 404, 417—420 Silk, Eliza, Wellington.—Five oil paintings—“Winter Scene in Holland,” “Mount Cook,” “Mount Egmont,” &c.
- 122, 125, 128—132, 144, 148, 149 Sperrey, E. Kate, Wellington.—Nine oil paintings—“Governor of New Zealand,” “The Goatherd,” &c.
- 386 Steele, L. J., Auckland.—Oil painting—“The Story of a Saddle,” from a poem by G. N. O.
- 341, 347 Stowe, Jane, Wellington.—Panels, painted in oils—“Japanese Lily,” Passion Flower.”
- 405 Tasker, J., Wellington.—Oil painting—“Sir William Fitzherbert, K.C.M.G.”
- 296 Taylor, A. S.—“Still Life.”
- 343—351 Tizard, Mrs. F.—New Zealand flowers.
- 42 Tennent, W. J., Timaru.—Oil painting—“Mount Cook, from the Tasman River.”
- 38, 39 Turner, D. H., Wellington.—Oil paintings—“Fruit,” “Thereby Hangs a Tale.”

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- 146 Wilson, L.—“Mount Cook.”
- 387, 388, 398, 400 Wimperis, F. M.—“Poppies” and “Foxglove,” (in panels).
- 342 Woodford, E.—“Basket of Flowers.”
- 44 Wright, M'G. B., Dunedin.—Oil paintings.
- Class 2.—Various Paintings, Drawings, &c.**
- 192—197 Barraud, C. D., Wellington.—Six water-colour paintings—“Mount Cook,” “Mount Pembroke,” “Tikitapu,” &c.
- Black, H., Auckland.—Glass embossing—“The Lion and Unicorn.”
- 218—248 Bock, A., Auckland.—Landscapes; portraits painted on porcelain, &c.
- Brooks, Mrs. F. A., Christchurch.—Poonah paintings upon velvet.
- 180, 212, 214 Budden, Rose, Christchurch.—Five water-colour paintings—“Sunflowers,” “Group of Roses,” “Creek, Devil's Gully,” &c.
- 78, 207—208 Chapman, E.—“Leaves from a Sketch-book,” &c.
- 254, 264 Connell, F. A. H.—“Lichfield Cathedral,” “Part of Lichfield Cathedral.”
- 265, 266 Elliott, G. H., Canterbury College School of Arts, Christchurch.—Various drawings in water-colours, sepia, chalk, &c.
- 252, 253, 258, 263 Gardiner, Mima, Christchurch.—Four water-colours—“Bealey,” “The Grey Valley,” “Point Elizabeth,” &c.
- 255—257 Gardiner, Nora, Christchurch.—Three water-colours—“Old Mill,” “West Coast, N.Z.” (two).
- 339, 340, 352—356 Gaze, Annie, Christchurch.—Eight panels, framed; plaque, on plush mount.
- 6—8, 190—206 Gully, John, Nelson.—Landscapes, in water-colour.
- 56 Gear, A. H., Christchurch.—Crayon drawings—“Queen,” “White Daisy.”
- 261 Gibb, W. M.—“A Bend on the Avon, Christchurch.”
- Gouldsmith, E., Christchurch.—Water-colour drawings.
- 249, 259 Harris, Emily C., Nelson.—Water-colour paintings of New Zealand flowers, birds, and berries.
- 11, 19, 32, 51 Hodgkins, Isabel, Dunedin.—Water-colour paintings.
- Hodgkins, W. M., Dunedin.—Water-colour paintings.
- Huddlestone, F., Hermitage, Mount Cook.—Water-colour painting—“Mount Cook.”
- 180—183 Lloyd, H. G., Dunedin.—Five water-colour paintings.
- Martin, J., Auckland.—Twenty large mezzotint pictures.
- Merritt, T. E., Wellington.—Photo-etchings, by new process.
- 250, 260 Moreton, S. H., Invercargill.—Water-colours—“Cosmon Peak,” “Mount Earnslaw.”
- M'Cardell, J. F., Christchurch.—Illuminated musical calendar.
- 179 Ogston, Kate, Dunedin.—Six water-colours, drawings of New Zealand Flowers.
- Partridge, Florrie E., Christchurch.—1 doz. designs for birthday and other cards.
- .5, 9 Richmond, J. C.—“Shelly Beach, Auckland;” “Blind Bay.”
- 80—89, &c. Rowan, Mrs.—Twenty water-colour drawings, etc.—New Zealand flora.
- 281 Sperry, K.—“Study of a Head.”
- 415, 416 Stewart, J. T., Wanganui.—Two monoton drawings—“Group of New Zealand Mountains,” “Mount Egmont.”
- 52—54 Steele, L. J.—“Napoleon on Board ‘the Bellerophon,’ &c.
- 343—357 Tizard, Mrs. F., Thames.—Water-colour paintings.
- 198 Walsh, A. W., Christchurch.—New Zealand landscape, in water-colours.
- 267 Waters, Elizabeth, Dunedin.—Crayon drawing of Captain Cook.
- 184—188, 262 Watkins, K., Auckland.—Six water-colour paintings.
- 209—211 Wimperis, Jenny, Dunedin.—Landscape, water-colours.
- Woodford, Edith J., Christchurch.—Water-colour paintings—“Basket of Flowers,” “Bunch of Lilies.”
- Wrigg, H. C. W., Public Works Department, Wellington.—Pen and ink etching—“A Table’s Contents.”
- 189, 191 Wright, F., Auckland.—Water-colour painting.
- Wright, M'G. B., Dunedin.—Water-colour paintings of New Zealand scenery.
- Class 3.—Sculpture and Die Sinking.**
- 78 Bock & Cousins, Wellington.—Specimens of engraving and die-sinking work.
- Class 4.—Architectural and Engineering Drawings and Models.**
- Bate, D. B., Parnell.—Specimens from Indian ink tracings.
- Connell, F. A. H., Foxton.—Two drawings—“Lichfield Cathedral,” shaded in Indian ink.
- Elliott, G. H., Canterbury College School of Art, Christchurch.—Architectural drawing—“Gothic Doorway.”
- 64—72 Lamb, R., Napier.—Types of bush board school buildings and churches constructed of timber, and erected in Hawke's Bay, N.Z.
- Lambert, T. S., Christchurch—Architectural drawings.
- Public Works of New Zealand, Hon. Minister of.**—Elevation and plans of viaducts, Government buildings, &c.
- Trevithick, J. G., Auckland College and Grammar School, Auckland.—Eleven models of bridges, &c., by various pupils of the college.
- Class 5.—Engravings and Lithographs.**
- Bock & Cousins, Wellington.—Art album of New Zealand flora.
- Hay, W. E., Auckland.—Mezzotint engraving—“The Ascension of the Virgin,” by Karl S.
- Pattie, D. H., Blenheim.—Steel engraving—“Beatrice and Dante,” by Sir Noel Paton.
- Queenstown, Borough of.—Engravings.
- Steele, L. J., Auckland.—Etching, “Napoleon,” “His Only Friend,” “The Poachers.”
- Surveyor-General of New Zealand,** Wellington.—Lithographic and photo-lithographic maps of New Zealand.
- Wilsons & Horton, Auckland.—Engravings in volume.
- Willis, A. D., Wanganui.—Five frames of chromolithographs.

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The Official "Guide to the Picture Gallery

QUEENSLAND.

I.

Works of Art.

Class 1.—Oil Paintings.

- 1 Aplin, Louisa, Stanthorpe.—Oil painting, from nature.
2 Barlow, F. W., The Grange, Toowoomba.—Oil painting.
3, 4 Bowkett, Miss, Herberton. — "Orchid," "Views of Herberton."
5, 6 Clarke, J. A., South Brisbane.—View of Quart Pot Creek, Stanthorpe; "Study of a Coleus."
7—9 Fristrom, O., Brisbane.—"King Sandy, a Queensland Aboriginal;" "An Ancient Greek;" "A Brown Study, a Queensland Aboriginal."
10—15 Jenner, W., Brisbane.—"The Arched Rock, Coast of Durham;" "Boomers at Brighton;" "Land's End, Cornwall;" "Lingered Light."
16, 17 Kitson, H. A., Mackay.—View of Mackay and District from Mount Bassett, view of Pioneer River and Town of Mackay.
18, 19 Rayment, R. S., Brisbane.—"A Cloudy Morning, Milton Reach, Brisbane River;" "Brisbane, at Sunset."
20 Reilly, I., Stanthorpe.—Oil painting from nature.

Class 2.—Various Paintings, Drawings, &c.

- 21, 22 Austin, W., Brisbane.—"Arrival of the First Gold Escort in Melbourne, 1852;" "Evening on the North Quay, Brisbane."
23 Barlow, F. W., Toowoomba.—Water-colours.
24 Clarkson, Mrs., Mackay. — Water-colour drawings of tropical fruits.
25, 26 Dewing, Miss N., Brisbane. — Poonah painting, crystal ivory type painting.
27, 28 Mohr, O., South Brisbane.—Three water-colour illuminations for addresses, &c.; "Study of Still Life," &c.
30, 31 Perkins, G. J., Mackay.—"Bruce," head of dog; a study in sepia; original ode to Australian pioneers.

- 32—34 Rayment, R. S., Brisbane.—Water-colours—"The Acclimatisation Gardens, Brisbane;" "Quart Pot Creek, Stanthorpe;" "The After-glow, Brisbane River."

- 35 Rice, L. K., Mackay.—Four water-colour drawings.

- 20a Rowan, Mrs.—Queensland flowers.

Class 4.—Architectural and Engineering Drawings and Models.

- 18 Buckridge, J. H., Architect, Brisbane.—Designs for proposed hotel, design in competition for Madrid Exhibition 1880, design for church.
19 Clarke, J. J., Architect, Brisbane.—View of Public Offices, Brisbane, and various public buildings.
20 Colonial Architects' Branch, Department of Public Works, Brisbane.—Collection of drawings of public buildings in Queensland.
21 Galley, R., Architect, Brisbane.—Collection of architectural designs and photographs.
22 London Chartered Bank of Australia, Brisbane.—View of the London Chartered Bank, Brisbane.
23 Oakden, Addison & Kemp, Architects, Brisbane.—Photographs of buildings, designed by exhibitors, erected or being erected in Queensland.
24 Port and Harbours Department, Brisbane.—Model of pile lighthouse, Brisbane River Bar; model of lighthouse, Cape Bowling Green.
25 Stombuco, A., & Son, Brisbane.—Sketches of H.I.M. Opera House, Brisbane, and other architectural designs.

Class 5.—Engravings and Lithographs.

- 26 Mohr, O. South Brisbane. — Photo-lithography.
27 Taylor, J. F.S.Sc., Rosewood.—Portrait of General Sir T. Macdougall, G.C.B., Brisbane, &c., from 1821 to 1825.

SCANDINAVIA.

I.

Works of Art.

Class 1.—Oil Paintings.

- Boe, F., Bergen, Norway.—Oil paintings of flowers; landscape—"Island in Norway, by Midnight Sun."

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The Official "Guide to the Picture Gallery

SOUTH AUSTRALIA.

I.

Works of Art.

Class 1.—Oil Paintings.

- 1—4 Ashton, J., Norwood.—"Evening at Knightsbridge," "Old Age," "Home, Sweet Home," "Early Morning, Onkaparinga River," etc.
22 &c. Campbell, Dr. W. M.—Four landscapes—"Glenelg River."
15 Commissioners for South Australia.—"Laughing Jacks," by Miss Benham.
9 Crampton, C. F. J.—"Greenfinch."
25, 26 Gill, H. P.—"The Quarry Forge," "Life Study."
5—7, 12 Hesseltine, Miss V. A., Norwood.—"Waiting," "Scene off the Coast, S.A.," fruit piece.
31a Hood, J.—Portrait of the late C. Price, of Hindmarsh Island.
Johnstone, J., Nailsworth.—"On the Wallaby Track," "Boiling the Billy."
Kewson, H. S., South Terrace.—Painted mirror, plush and fish-scale frame.
13, 14 MacCormac, A., Medindie.—"A Bushman," portrait—"Hon. J. Colton, M.P."
24 Reynolds, G. A.—"The Old Barracks, Adelaide;" "Home News."
8 Taimert.—"Portrait of Mrs. R. Rees."
9 Willshire, Miss M. M., North Adelaide.—"Group of Shells," "Dead Life, Ducks."
10 White, J.—"Torrens' Lake—Sunrise."

Class 2.—Various Paintings, Drawings, &c.

- 27 Angas, Hon. J. H., M.L.C., Collingrove.—Four water-colour drawings of cattle, horses, and sheep.
19—21 Ashton, J., Norwood.—"Granite Island, Port Victor" (black and white); "Toilers of the Deep" (black and white), &c.
37—40 Commissioners for South Australia.—Christmas cards (water-colour), by Mrs. Smart; wild flowers (water-colour), by Miss Wehl.
41—43 Gouldsmith, E.—Views in Adelaide.

28—30 Hesseltine, Miss V. A., Norwood.—"Study of a Head" (pastel); "At the Well" (pastel); "The Greek Wife" (pastel).

32 Murray, A. J., Morialta-chambers, Victoria-square, Adelaide.—Water-colours of South Australian coast scenery.

16 Summerhayes, E., Victoria Park.—"The Kremlin, Moscow" (pen and ink); "Our Toby" (pencil).

17 Widgery, Sophia, Magill-road, Norwood.—"Basket of Flowers," "Adelaide Hills Under Cloud," "Adelaide Hills on Fire."

Class 3.—Sculpture and Die Sinking.

18 Kennedy, W., Noarlunga.—Two carvings on slate—"Old England and the New" and "Australia;" carving on Oamaru stone—"On Guard."

Class 4.—Architectural and Engineering Drawings and Models.

- 19 Barnes, J. W., Norwood.—Drawing of Capitol, the remains of the temple of Jupiter Stator at Rome.
20 Banks, W., Park-st., Hackney.—Model of self-supporting staircase.
21 Murray, A. J., Adelaide.—Design for a cathedral, and sundry other designs.
22 Rees, R., C.E., M.P., Adelaide.—Perspective and geometric designs and plans.
23 Summerhayes, E., Victoria-park.—Design for public offices.

Class 5.—Engravings and Lithographs.

- 24 Angas, Hon. J. H., M.L.C., Collingrove.—Certificates for wool, wheat, &c., from various Exhibitions in Europe, America, and Australia.
25 Brown, J. E., J.P., F.L.S., F.R.G.S., Conservator of Forests.—Collection of lithographs, illustrating forest flora of South Australia, &c.
26 Leader, H. F., Government Printer.—Lithographs, photo-lithographs, chromo-lithographs.

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NORTHERN TERRITORY OF SOUTH AUSTRALIA.

I.

Works of Art.

CLASS 2.—VARIOUS PAINTINGS AND DRAWINGS.

- 1 Knight, J. G., Deputy Sheriff, Palmerston.—"The Dawn of Art," sketches and drawings by aboriginal at Port Darwin, without aid of master.

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and Special Catalogue of Fine Arts" can be bought in the Exhibition,

TASMANIA.

I.

Works of Art.

Class 1.—Oil Paintings.

- 1, 1a Agnew, Hon. J. W., Hobart.—Oil paintings—Tasmanian scenery (by Piguennit and Fraser).
- 2 Baily, H. H., Hobart.—Oil painting—“Hobart” (by Capt. Forrest).
- 3 Browne, F. S., Launceston.—Oil Painting—“At the Mercy of the Waves” (original); “S.S. ‘Pateena.’”
- 4 Canaway, Miss Alice, Hobart.—Oil paintings—“The Consultation,” “Little Miss Muffet” (copies).
- 5 Gaunt, Miss Ella, Launceston.—Two panels, with flowers in oils.
- 6 Graves, Mrs. J. W., Hobart.—Two plaques in oils, etc., and mantel drape; Tasmanian wild flowers.
- 7, 7a Hall, A. J., Launceston.—“Cummins’ Head” and “Huon River” (by Piguennit), “Yacht on Derwent” (by Forrest).
- 9 Higgs, J. J., Launceston.—Three paintings.
- 10 Hope, Miss.—“St. Paul’s Dome, from Banks of South Esk River” (by the Artist).
- 11 Johnston, R. M., Hobart.—Oil paintings—Tasmanian scenery.
- 12 Jordan, J. J. H., Launceston.—Oil painting (by Miss Edwards).
- 13, 13a Lumsden, Miss B., Hobart.—Landscape from nature, taken from Augusta-road, and two other paintings.
- 14 Mace, E. C., Hobart.—Oil paintings—West Coast scenery.
- 15, 15a Maxwell, Mrs. C., Leven.—Two oil paintings—screen with Tasmanian scenes and flowers.
- 16 Nicholas, R. J., Launceston.—Portraits in oils.
- 17 Piguennit, F. L.—Oil paintings—Tasmanian scenery.
- 18 Stewart, Miss A., Launceston.—Oil paintings.
- 19 Trustees Mechanics’ Institute, Launceston.—Paintings—“Aborigines.”

20 Trustees Tasmanian Museum.—Oil paintings (by Waterman)—“Truganini” (female); “Warreddy” (male); “Nanalargena” (male), &c.

22 Walker, Miss M., Hobart.—Oil paintings.

21 Wignall, Miss, Hobart.—“Government House, Hobart.”

Class 2.—Various Paintings, Drawings, &c.

- 24 Cathcart, Miss M., Launceston.—Pen and ink work.
- 26 Dicker, Rev. J., Hobart.—Water-colours—Tasmanian scenery.
- 28 Hall, A. J., Launceston.—Water-colour—“Ben Lomond” (by Beauchamp).
- 30 Hewer, Miss, Hobart.—Water-colour painting on glass.
- 28 Huston, J.—Pen and ink sketch (by Evans).
- 31 Mayson, Miss H. E., Hobart.—Study of Tasmanian shells on porcelain; seaweed on wood, in water-colours.
- 32 Meredith, Mrs. L., Hobart.—Three paintings—Tasmanian fruit.
- 33 Nicholas, R. J., Launceston.—Water-colours.
- 34 Smith, P., Hobart.—Water-colour paintings.
- 36 Tapp, Miss C., Antill Ponds.—Pencil drawing.
- 35 Woolnough, Rev. J. B., Hobart.—Water-colour—“Port Arthur” and “Point Puer.”

Class 4.—Architectural and Engineering Drawings and Models.

- Corrie & North.—“Colonial Mutual Life Office, Launceston,” “Spring Banks, Longford” (by the Exhibitors).
- 39 Luttrell, A. E., Launceston.—Architectural drawing.

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The Official "Guide to the Picture Gallery

UNITED KINGDOM.

I.

Works of Art.

[In the North-east Main and Outer Gallery.]

According to the arrangement concluded between the Executive Commissioners and the Printer of the Official Catalogue, each exhibitor is only entitled to three lines in each class. In consequence, many most valuable pictures necessarily remain undescribed, especially in the British and Victorian Art lists. To rectify the unforeseen results of the hard and fast rule abovementioned, the working of which is found to be singularly awkward when applied to lenders of high-class pictures, the Executive Commissioners have deemed it necessary to publish a separate Art Catalogue in which art treasures can be described with unrestricted freedom.—ED. OFF. CAT.]

Class 1.—Oil Paintings.

- 47 Aberdeen, Earl of.—"Fourth Earl of Aberdeen," by Sir T. Lawrence, P.R.A.
- 53 Aberdeen, Lady.—"Wife of the Fourth Earl of Aberdeen," by Sir T. Lawrence, P.R.A.
- 51, 75, &c. Agnew & Sons.—Fourteen oil paintings, including "The Rose of England," by E. Long, R.A.; "The Weald of Kent," by W. Linnell, etc.
- 48, 58, &c. Agnew, W.—Five oil paintings, including "School Door," by G. D. Leslie, R.A.; "Night Watch," by Briton Rivière, R.A.; etc.
- 27, 80, 182, &c. Armstrong, Lord.—"View at Tivoli," by R. Wilson; "Near Highgate and Dedham," by J. Constable, R.A.; etc.
- 52 Ashley, Hon. E., London.—"Lord Melbourne," by Sir E. Landseer, R.A.
- 180 Bazley, Sir T. S., Bart.—"Invention of the Stocking Looms," by A. Elmore, R.A.
- 83 Bayliss, W.—"Interior of St. Remy, Rheims," by the Artist.
- 44 Bowman, Sir W.—"Tennyson," by F. Watts, R.A.
- 171 Brett, J., A.R.A.—"Fair Wind, from the Harbour, Great Yarmouth."
- 54, 67, &c. Brassey, Lord.—"Woodland Mirror," by R. Redgrave, R.A.; "The Scapegoat," by Holman Hunt; "Goodwin Sands," by E. W. Cooke, R.A.; etc.
- 173 Burgess, J. B., A.R.A.—"An Artist's Almsgiving," by the Artist.
- 74, 90, 105 Cheylesmore, Lord.—"Spate in the Highlands," and "Taming of the Shrew," by Sir E. Landseer, R.A.; etc.
- 178 Chevalier, N.—"Mount Cook and Lake Pukaki, N.Z.," by the Artist.
- 28 Childers, Right Hon. H. C. E.—"Near Dedham," by J. Constable.
- 128 Connal, W.—"Reading Aloud," by Albert Moore.
- 172 Cowen, L. J.—"A London Soup Kitchen," by the Artist.
- 8 Cooper, T. S., R.A.—"Evening in the Marshes."
- 107 Davis, H. W. B., R.A.—"Now Came Still Evening On."
- 145 Dicksee, F.—"The Five Foolish Virgins."
- 181 East, A.—"A Spring Noontide Scene in the Upper Thames," by the Artist.
- 145 Field, W.—"The Harrow, Viewed From Hampstead Heath," by the Artist.
- 60, 80, &c. Gallilain, W.—"A Legend of St. Patrick," by Briton Rivière, R.A.; "The Fowler's Oraig," by P. Graham, R.A.; etc.
- 142 Gassiot, C.—"The Adoration of the Magi," by J. R. Herbert, R.A.
- 84 Gilbert, Sir J., R.A.—"The Morning of the Battle of Agincourt," by the Artist.
- 91, 101 Goodall, F., R.A.—"Spirit of the Dove," and "Cairo Fruit Seller," by the Artist.
- 78 Gow, A. C., R.A.—"Last Days of Edward VI."
- 184, 170 Gregory, G. B.—"Dairy Cows," by F. T. Cooper, R.A.; "Fox Hunting," by J. Dodd.
- 90, 189 Graves, H., & Co.—"Evangeline," by E. Douglas; "Coronation of the Queen," by Sir George Hayter.
- 137 Haworth, A.—"The Night Before Naseby," by A. L. Egg, R.A.
- 28, 170 Hayes, E., R.H.A.—"Dutch Pink Coming Ashore" and "Vessels Leaving Great Yarmouth."
- 95, 96 Herkomer, H., R.A.—Portrait of his father and portrait of Archibald Forbes.
- 175 Herdman, D.—"St. Columb Rescuing a Captive," by R. Hardiman.
- 183, &c. Hine, T.—"Young Lord Hamlet," and "Take, Oh, Take," by P. H. Calderon, R.A.; "Josephine Signing Her Divorce," by E. M. Ward.
- 92 Holl, F., R.A.—Portrait of Samuel Cousins, by the Artist.
- 132 Horsley, J. C., R.A.—"Young Life on Old Ground," by the Artist.

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- 185 Horsley, W. C.—“A Cairo Fortune-Teller,” by the Artist.
- 94, 100 Jacobi, C. J.—“Victory” and “Declaration of War,” by Sir J. D. Linton, P.R.I.
- 56, 116 Joshua, S.—“Hoorn, North Holland,” by G. H. Boughton, A.R.A.; “The Apodyterium,” by Alma Tadema, R.A.
- 98 Kincaid, J.—“Jersey,” by E. Douglas.
- 130 Lewis, C. J., R.I.—“A Shady Lane,” by the Artist.
- 49, 76, 77 Leighton, Sir F., P.R.A.—Portrait of Sir R. Burton and “Phryne at Elensis,” by the Artist; “Great Britain in Egypt,” by W. C. Horsley.
- 23, 61, &c. Lefevre, L. H.—“Cairo Fruit Seller,” “Brothers of the Brush,” by E. Crowe, A.R.A.; “When Doctors Differ,” by H. S. Marks, R.A.; etc.
- 59 Lees, C. E.—“Waiting for the Ferry,” by G. D. Leslie, R.A.
- 121 Loraine, Sir L.—“Captain Sir L. Loraine, Bart., R.A.,” by Mrs. A. Lea Merritt.
- 127 Long, E., R.A.—“Pharaoh’s Daughter,” by the Artist.
- 162, 166 Marsden, H. B.—Five oil paintings by W. P. Frith, R.A., including “Race for Wealth,” “Spider at Home,” “Retribution,” etc.
- 19 Merritt, Mrs. A. Lea.—“James Russell Lowell, D.C.L.”
- 82 Montrose, Duchess of.—“The Poor, the Poor Man’s Friend,” by T. Field, R.A.
- 111 Norfolk, Duke of.—Portrait of Cardinal Newman, by Sir J. E. Millais, Bart.
- 34 Onslow, Lord.—“House of Commons, 1730,” by Hogarth and Thornhill.
- 104 Ouless, W. W., R.A.—Portrait of H. S. Marks, R.A., by the Artist.
- 169 Peacock, R.—“Landing of Princess Alexandra,” by H. O’Neill, A.R.A.
- 112 Pender, Sir J.—“The Evil One Sowing Tares,” by Sir J. E. Millais, R.A.
- 108 Pemgini, C. H.—“Crossing the Torrent,” by the Artist.
- 144 Price, J.—“The Morning after Trafalgar,” by C. Stanfield, R.A.
- 24 Prince of Wales, H.R.H.—“H.R.H. the Princess of Wales,” by W. B. Richmond.
- 26 Princess of Wales, H.R.H.—“H.R.H. the Prince of Wales,” by Angelini.
- 110 Prinsep, H.T.—“On the Banks of the Ganges.”
- 25, 177, &c., Queen Victoria, H.M.—“Opening of London Bridge, 1st August, 1881,” by C. Stanfield, R.A.
- 81 Richmond, W. B.—“The Lament of Ariadne,” by the Artist.
- 122 Riviere, Briton, R.A.—“The Welcome.”
- 1, 102, 147 &c., Rosebery, Lord.—“Right Hon. W. E. Gladstone, M.P.,” by Sir J. E. Millais, R.A.; “Flying Dutchman,” by J. F. Herring, etc.
- 115, &c. Sat, J., R.A.—“Broken Daisy Chain,” “Mille. Bunsen,” by the Artist.
- 97, 136 Samuelson, Sir B.—“Hercules Struggling with Death for the Body of Alcestis,” by Sir F. Leighton, P.R.A.
- 138 Shepherd, G. H.—“The Wounded Knight,” by J. P. Poole, R.A.
- 78 Smart, J., R.S.A.—“Bonnie Strathyre,” by the Artist.
- 103 Stokes, Mrs.—“A Cornish Dame School,” by the Artist.
- 120 Stokes, A.—“Among the Sandhills.”
- 55, 57 Tennant, Sir C.—“Winter” and “Autumn,” by G. H. Boughton, A.R.A.
- 183 Topham, H. W.—“Italian Bowl Players.”
- 123 Turner, H. J.—“Cave Canem.”
- 173, &c. Vokins, J. & W.—“The Convalescent,” “Interior of a Buddhist Monastery,” by N. Chevalier.
- 141 Waterlow, A. E.—“Sunny Hours,” by the Artist.
- 85, 46 Watts, G. F., R.A.—Six oil paintings, including portraits of Matthew Arnold, Robert Browning, and J. L. Motley; “Love and Life,” etc.
- 180 Wells, H. T., R.A.—“The Queen’s Accession. In the Early Morning, 30th June, 1887.”
- 4, 5, &c. Westminster, Duke of.—Twenty-one oil paintings, including “Dunstanborough Castle,” “Conway Castle,” “Duchess of Westminster,” etc.
- 50, 143, &c. White, E. F.—“A Surrey Pastoral” and “Early Summer, Surrey,” by Mark Fisher, R.I.W., etc.
- 38, 71 Williams, G. F.—“Opium Seller in Cairo,” by W. Muller; “Midsummer Night’s Dream,” by D. MacIise, R.A.
- 93 Yeames, W. F., R.A.—“Prisoners of War, 1805,” “Maundy Thursday,” both by the Artist.
- Class 2.—Various Paintings, Drawing, &c.**
- 211 Aumonier, J., R.I.—“Old Manor House, Lordington, Sussex,” by the Artist.
- 232 Babb, J. S.—“Ponte Vecchio, Florence,” by the Artist.
- 244 Bough, S., R.S.A.—“An Old Castle, Moonlight,” by the Artist.
- 240, 258 Couldery, T. N.—“The Prentice-Hand,” and “Fair Wear and Tear,” by the Artist.
- 197, 213 Dealy, J. M.—“Little Jan and his Vrow,” and “Little Pickle,” by the Artist.
- 218 Dillon, F., R.I.—“The Island of Philal, Nubia, from the North,” by the Artist.
- 245 Earle, C. R.I.—“Ferry on the Wensum at Norwich,” by the Artist.
- 202 204 Elgood, G. S., R.I.—“Fontainebleau,” and “A Kentish Village,” by the Artist.
- 234 Fripp, A. D., R.W.S.—“The Dairyman,” by the Artist.
- 200 Fulleylove, J., R.I.—“An Italian Garden,” by the Artist.
- 258 Grey, J. W.—“Here they Come,” by the Artist.
- 274 Gulland, E.—“A Wallflower,” by the Artist.
- 194 Hayes, E., R.H.A.—“Swansea Fishing Boat Entering Fowey Harbour,” by the Artist.
- 231 Hogarth & Sons.—“A View of Sydney, 1850,” by G. F. Angus.
- 226, 253 Hughes, A. F.—“News,” “Idle Moments,” by the Artist.
- 261, 284 Huson, T., R.I.—“Llangollen,” and “The Mouth of the Mersey,” by the Artist.
- 222, 225 Jackson, Helen.—“Quite Well, Thank You,” “A Face Looks Like a Story,” by the Artist.
- 264, 279 Johnson, C., R.I.—“Old Houses at Dedham, Essex,” “Langham Hill, Essex,” by the Artist.
- 201 Jones, C., R.C.A.—“Sheep, April Morning, Puckaster, Isle of Wight,” by the Artist.
- 216 Lennard, L.—“Cathedral of Saintes, Charentes, France,” by the Artist.

- 205, 251, 265 Lewis, C. J., R.L.—“A Church Porch, Sunday Morning;” “A Cornfield, Hurley, Berkshire, Evening,” &c., by the Artist.
- 263, 299 Macquoid, T. R., R.L.—“A Farm-yard, near Seven Oaks, Kent;” “Village of Lymont, near Devon,” by the Artist.
- 208, 288 Maplestoke, F. H.—“A Malignant Royalist;” “Annie, Wife of Richard II.”
- 190, 242 Marrable, Mrs. M.—“Side Street, St. Moritz;” “An Old Welsh Garden,” by the Artist.
- 237 May, P.—“Cornfield, Bexley, Kent,” by the Artist.
- 217 Moberley, W. I.—“A Maiden of the Primrose League,” by the Artist.
- 229 Nash, J., R.I.—“The Tithe Pig,” by the Artist.
- 221, 227 Nattress, G.—“Caldron Linn, Perthshire;” “Entrance to Henry VII.’s Chapel, Westminster Abbey,” by the Artist.
- 210 Orrock, J., R.I.—“Drovers Crossing Keal Sands, Holy Island in Distance,” by the Artist.
- 238, 248 Pocock, Z. L.—“The Squirrel,” “The Empty Cradle,” by the Artist.
- 188, 214 Poole, C.—“Upton Farm, Dorset;” “The Haven,” by the Artist.
- 239 Pyne, T., R.I.—“A Breezy Morning,” by the Artist.
- 207, 260 Quinton, A.—“The Ford, Surrey;” “A Surrey Pond,” by the Artist.
- 280 Rackbain, A.—“On Wimbledon Common, Surrey,” by the Artist.
- 199 Rosebery, The Countess of.—“H.R.H. Princess of Wales” (on china), by C. J. Turrell.
- 192 Rouse, R. A.—“Autumn Evening,” by the Artist.
- 236 Shellshear, A. J.—“Mary Magdalene,” by the Artist.
- 219 Smart, J., R.S.A.—“On the Moor—September,” by the Artist.
- 266 Stevens, A.—“Farmyard in Surrey,” by the Artist.
- 189, 287 Stevens, A.—“Derwentwater, on the English Lakes;” “Trout Stream, Loch Awe,” by the Artist.
- 241 Stocks, W. F.—“A Cornfield,” by the Artist.
- 206, 254 Varley, J.—“Assouan on the Nile;” “Mosque of the Shawur,” by the Artist.
- 262 Way-Cosens.—“A Home for the Aged,” by the Artist.
- 215 Westminster, Duke of.—“Old Indianman Ashore,” by S. Prout.
- 198, 209, 212, 223, 228, 235, 249, &c.—White, E. Fox.—“Returning from the Vineyard,” by Guido Bach, R.L.; etc.
- 230, 233 Yglesias, V. P.—“Tewkesbury Bridge;” “The Thames from Cherry Gardens’ Pier.”
- 252 Youngman, A. M., R.I.—“Filled with Thoughts of Long Ago,” by the Artist.

Class 3.—Sculpture and Die Sinking.

- Boehm, J. E., R.A.—“Young Bull and Herdsman” (marble), “St. George and the Dragon” (bronze).
- Birch, C. B., A.R.A.—“Retaliation” (bronze).

Marshall, H. Calder, R.A.—“Undine” (marble), “Stepping Stones” (bronze), “Little Bo-Peep” (marble).

Class 4.—Architectural and Engineering Drawings and Models.

[*Hung on the North-East Staircase, at the East End of the Nave.*]

- 27, 14, 15 Adams, M.—“Mausoleum, Rockwood;” “Entrance Hall, Belle Vue, Double Bay, Australia” (marble).
- 29, 30, 32, 4, 36, 8 Aitchison G. H.—“Drawing-room of Sir Sydney Waterlow;” “Drawing-room of Sir W. Lawson,” etc.
- 6, 8, 9, Ayton-Lee, E. C.—“Berechurch Hall, Colchester;” “Proposed Church at Paddington;” “Church of St. Thomas, Brentwood.”
- 27 Bloomfield, R. T.—“Interior View of Bradley Memorial Hall, Hailebury College.”
- 10, 13, 18 Champneys, B.—“Mansfield College, Oxford;” “St. Mary, Star of the Sea Church, Hastings;” etc.
- 22, 23 Edis, R. W.—“Constitutional Club, Northumberland Avenue, London;” “Restorations and Additions to Buckden Palace, Kent.”
- 3, 26 George, E., & Petto.—“Redesdale Hall;” “Moreton-in-the-Marsh;” “Coffee Tavern, Newark-on-Trent.”
- 5, 25 Mitchell, S.—“Interior of Debating-room, Edinburgh University;” “Exterior of Edinburgh University.”
- 12 Milne, W. O.—“Walsingham House, Piccadilly.”
- 21 Newton, E., Beechcroft, Bickley, Kent.”
- 16, 19 Nicholl, S. I.—“Church of St. John the Baptist, Brighton, Proposed new Façade and Tower;” etc.
- 1 Scott, J. O.—“Tower of the Glasgow University.”
- 28 Seddon, J. P.—Interior view design for Paisley memorial church
- 4 Street, A. H.—Interior view of the new chancel and transept of Dewsbury parish church.
- 24, 35 Tarver, H. J.—“Last Year’s Additions to Parkfield, Worcester;” “House for R. S. Mort, Esq., Corla, N.S.W.”
- 20 Warry, D. R.—“Church.”
- 31 Watson, T. H.—“Somerhill, Kent, showing the North Court recently added by Sir J. Goldsmid.”
- 11 Young, W.—“Glasgow Municipal Buildings, Cochran-street Elevation.”

Class 5.—Engravings and Lithographs.

- 26, 65 Agnew & Sons, T., Old Bond-st., London.—Engravings, by Cousins, Staapole, Waitner, Lanane, Debaines, Macbeth, Flades, etc.
- 219 Baker, O.—“St. Bartholomew’s Priory, West Smithfield.”
- 116, 140 Bradbury, W. H.—“Punch” drawings, by Tenniel, Leach, Sambourne, Du Maurier, Furniss, and Keene.
- 188, 195 Burgess, W. W., “Cathedral Towns in England;” “The Gate of Honour, Cambridge,” etchings, by the Artist.
- 141, 152 Clifford & Co., 12 Piccadilly, London.—Drawings, by Chattock, Batley, Murray, Dicksee, Hine, and Farrer.

- 177, 183 Colnaghi & Co., P. & D., Pall Mall East, London.—Etchings, by Waltner, Atkinson, Macbeth, Debanes, Appleton, and Cousins.
- 184, 6 Corbould, A. C.—“Red Shirt and Broncho Bill,” “Hardly Necessary,” etc., by the Artist.
- 1, 25 Dunthorne, 5 Vigo-st., London.—Engravings, by Holloway, Law, Barclay, Robertson, Ball, Slocombe, Wetherbee, Macbeth, Watson, etc.
- 199, 219 Fine Art Society Ltd., New Bond-st., London.—Artists' proofs and prints, after Stone, Charlton, Leighton, Riviere, etc.
- 1, 53 Illustrated London News.—Black and white drawings, etchings, etc., by Woodville, Paget, Ward, Glendoni, Macnab, Robertson, Robinson, etc.
- 217, 18 Lea-Merritt, Mrs.—“Eve,” “St. Cecilia.”
- 91, 115 Lefevre, L. H., 1A Knight-st., St. James, London.—Engravings, by Tunillier, Ryall, Blanchard, Rajou, Simmons, Turrell, etc.
- 66, 90 M'Lean, T., 7, Haymarket, London.—Engravings, by Foster, Joanowitz, Beadie, Barlow, Turrell, Borlvin, Van Haanen, Heffner, etc.
- 155, 6 Nichols, C. M., Miss, F.S.P.E.—“A Norfolk Scene,” “Rue des Cordonniers à Dives, Normandy,” by the Artist.
- 198 Onderet, F.—“Returning to the Fold,” etching, by the Artist.
- 247, 253.—Original etchings, including “The Dead Christ,” “A Portrait,” “The Harvest Field,” “Sneeding Turnips,” “The Forge,” etc.
- 196, 7 Piercy, R.—“The Butter Tower, Rouen”; “The Church of St. Macion, Rouen.”
- 153, 4 Roller, G., F.S.P.E.—“Reapers,” “Repose,” by the Artist.
- 285, 246 Sherborn, C. W.—Etchings and engravings, including “Cat's Head,” “Life and Death” (allegory), etc.
- 228, 234 Sickert, W.—Etchings, including “Oxford and Cambridge Terraces, Bayswater”; “Les Infantes Terribles,” etc.
- 213, 216 Slocombe, E., F.S.P.E.—“The Trojan Ships Transformed to Sea Nymphs,” “West Window, Tintern Abbey,” etc.
- 254, 64 Toovey, R.—Original etchings, including “On the Quay, South Basin, Antwerp,” “At Antwerp,” “Bruges,” “On the Scheldt,” etc.
- 157, 168 Tooth & Sons, A., Haymarket, London.—Drawings, by Pratt, Chauvel, Macbeth, Waltner, Achille, Jacquet, Atkinson, and Every.
- 220, 222 Van Gravesande, C. S.—“Pointe de Raz, Brittany”; “Fishing Boats,” “Dordrecht.”
- 180, 176 Virtue, J. S., & Co., City-road, London.—Etchings, by Haig, Lumb, Stocks, Slocombe, Armytage, Murray, and Birket Foster.
- 210, 212 Webb, J. C.—“Found,” “Hafed,” “On Her Majesty's Service.”

AUSTRALIAN PORTRAIT GALLERY.

On the north wall of the North Transept, surrounding the picture of the Queen's coronation, hangs a group of twenty-eight portraits, which the English lenders—whose identity, however, cannot be distinctly traced—affirm to represent the chief Portuguese, Spanish, and Dutch discoverers of Australasian territory. The owners of the collection claim that it includes the portraits of Quiros, De Torres, Tasman, Dampier, Cook, Sir Joseph Banks, Bass, Grant, Flinders, Vancouver, Hartog, Parry, T. Henty, Fawkner, and others. But the genuineness of the portraits, which the owners decline to guarantee, requires confirmation. For a full description, visitors are directed to the Special Art Catalogue.

The Official "Guide to the Picture Gallery

and Special Catalogue of Fine Arts" can be bought in the Exhibition,

UNITED STATES.

I.

Works of Art.

Class 2.—Various Paintings, Drawings, &c.

- 1 Prang, L., and Co., Boston, Mass.—Pictures, etc.
- 2 Rookwood Pottery Co., Cin., Ohio.—Fine art pottery and chinaware.
- 3 Walker, J., San Francisco, California.—“Relieving Guard at Horse Guards, Whitehall, London.”

Class 5.—Engravings and Lithographs.

- 4 Currier and Ives, New York.—Lithographic printing.
- 5 Jenks, Mrs. M. A.—Decorative and oil paintings on velvet.
- 6 Lowell, J., and Co., Boston, Mass.—Printings from steel.
- 7 Wells, Hope and Co., Philadelphia.—Enamelled advertising signs.

and is indispensable to every Visitor.

The Official "Guide to the Picture Gallery

Special Catalogue of Fine Arts can be bought in the Exhibition,

VICTORIA.

I.

Works of Art.

VICTORIAN LOAN COLLECTION.

Class 1.—Oil Paintings.

- 1 Aaroles, Rose C., Acland-st., St. Kilda, Melbourne.—"Judith." 4 Airey, Ellen, Mitford-st., St. Kilda, Melbourne.—Various paintings. 2 Annand, J., J. Sanderson and Co., 1 St. James' buildings, William-st., Melbourne.—"Spring Morning at Fernshawe," by I. Whitehead. 3 Anthoneess, Mary E., Fairholme, Prospect Hill-road, Camberwell, Melbourne.—Various paintings. 16, 86, &c. Armytage, J. W.—(28 pictures in all), "A Wayside Greeting," by H. Lang; "Reconciliation of Gainsborough and Sir J. Reynolds." 5 Bailey, Ann, Sydney-road, Brunswick.—"The Brigands." 226 Bon, Mrs.—"Barrack, Chief of the Yarra Tribe," by A. Fuller. 6 Boyd, Jessie, Shamrock Brewery, Collingwood, Melbourne.—"Grecian Face," by W. Goring Collis, Dublin. 8 Bridges, W.—"Sweet Dreamland," by Carl Bauerle. 44 Bunnerman, C.—"A Deer Park in Winter," by the Artist. 182 Clarke & Wallen.—"Breaking the News," by J. Longstaff. 65 Cotell, Mrs. Caulfeild.—"The Cardinal," by Therese Schwartze. 220 De Lacey, A.—"The Three Muses," by Angelica Kaufmann; "Zuleika" (artist unknown). 7, 88 Drummond, W.—"A Venetian Girl," by Ellen Montalba; "Preparing for Dinner," by Tamburini. 211 Dumergne, C.—"The Kingfisher's Retreat," by E. M. Osborne. 235 Earles, C.—"A Winter's Morning," by the Artist. 38, 71, 72 Fisher, Dr.—"On the Stour," by J. Constable, R.A.; "Lake Lugans," by R. P. Bonington, etc. 22 Fletcher, Mrs.—"Pet Canary," by W. P. Frith, R.A. 229 Fletcher, A. H.—"Young Chief of the Namo River, N.S.W.," by T. Balcombe. 84 Fraser, Hon. S.—"Portrait of Hon. Simon Fraser," by Sir J. E. Millais, R.A. 196 Fuller, Miss.—"Going Out with the Tide," by R. Dowling. 17 Germaine-Lulham, Dr. F. S.—"The Maid of the Mill," by E. S. 49, 55 Gillott, J.—"Italian Boy," by an unknown artist 1700; Portrait of a girl, 1850, artist unknown. 18 Gray, C.—"Does he Love me," by A. F. Paton 203 Gregory, A.—"William III." (artist unknown).
- 48, 63 Ham, Hon. C. J.—"Winter Sunset," by Carl Schultz; "Woodland Solitude," by J. T. Snell 34 Howden, J. M'A.—"On the Bure, Norfolk," by E. H. Fahey. 62 James, E. M., 171 Collins-st. East, Melbourne.—Portrait of daughters of E. M. James, by W. E. Miller, R.A. 195 Kenney, Capt. W., Esplanade, St. Kilda, Melbourne.—"Death of Nelson," by Turner. 223 Kenny, Captain.—"The Bathing Ship, 1854," by Thomas Clarke. 232 Knight, G. W., Sandhurst.—"A Spanish Maiden," by José Gutierrez, of Madrid. 36 Lempriere, Dr.—"Stonehenge," by H. D. Bell. 45 Lush, G.—"The Village Politicians," by A. Lueben. 6, 11, 21 Lynch, W.—"Blenheim Spaniel," by W. Dexter; "The Old Story," by W. Etty "Autumn," by A. Johnstone, etc. 112 Mair, Col.—"Autumn on the Dee, North Wales," by J. C. Ward. 111 MacBain, Hon. Sir J.—"Portrait of Sir J. MacBain," by G. Reid. 12, 26, 40, 46 Miller, Hon. H. (Executors of).—"The Child Queen," by A. Johnstone; "Isaac Watts and his Mother," by ditto, etc. 3, 25, 85 Moore, H.—"A Victim," by E. A. Rudeaux; "In Leigh Woods," by W. Jay, etc. 18 Moore, Mrs. Byron.—"Study of a Fox Terrier," by E. Douglas and E. H. Fahey. 212 Mullen, S.—"On the Upper Yarra," by L. Buvolot. 221 M'Cartney, G.—Marine view, by Copley Fielding. 185 M'Cracken, P.—"The Roman Forum," Roman mosaic. 136 M'Cracken, Mrs.—"Fort St. Angelo, with Bridge," Roman Mosaic. 51 &c. Pantou, J. A.—"Spanish Boy with Double Flute," by Murillo; "A Magdalene," by Correggio (1494); "Roman Forum," by the Artist. 10 Peck, H. F., Myrtle Cottage, Sale.—"Holy Family," by C. J. Robertson. 230, 231 Robertson, C. E.—"Melbourne, 1839," "Melbourne, 1838." 10, 23 Robertson, A.—"The Banks of the Ivy O," by B. W. Leader; "Maternal Felicity," by Angus Robertson. 37, 133 Rolando, C.—"Sunset on the Waves," by E. S. Calvert; "Street in Cairo," by R. Alcott 217 Roper, C.—"An Early Digging Scene in Victoria," by C. Roper. 134 Rowan, Captain F. C.—"Eddystone Light-house," by Sorensen. 9 Sherrard, Mrs. J. E.—"Un Billet de Logement," by Jules Girardet.

and is indispensable to every Visitor.

- 233 Shillinglaw, J. J.—“Capt. Matthew Flinders, R.N.” (artist unknown).
- 11 Sims, G. J., Burford, Middle Brighton, Melbourne.—“Ploughing,” by John Cragg; landscape, by Koeck; “Whitby Harbour by Moonlight,” etc.
- 1, 2, &c. Smith, Dr. L. L., 182 Collins-st., Melbourne.—Painting by Raffaele; “Apollo and the Python,” by Pietro Beneventu; etc.
- 58 Steffani, R.—“Magnificat,” by Guido Reni.
- 50 Summers, J.—Portrait of his father, by the late C. Summers.
- 14 Taylor, C., 4 Wellington-terrace, Wellington-parade, East Melbourne.—Landscapes.
- 15 Taylor, Rosamund, 4 Wellington-terrace, Wellington-parade, East Melbourne.—“A Norwegian Fjord,” by A. Normann.
- 30, 43 Thomson, W. K.—“Wreck, Coast of Aberdeen,” by Dix; “We’ll Maybe Return to Lochaber No More,” by Fanny M’Jan.
- 131 Thompson, J.—“Motherless,” by J. Longstaff.
- 52 Trestail, Ellen, Belmont, Errol-st., North Melbourne.—“The Magdalene,” by the Artist.
- 17 Turner, J. A., 18 Collins-st., Melbourne.—“Saved.”
- 16 Twining, Elizabeth, Selborne-st., Ascot Vale.—Group of lilies.
- 27, 28, 66 Twycross, J.—“Boats Leaving Ostend,” by T. Weber; “Sheep in a Barn,” by A. Dufaux, etc.
- 224 Van den Houten, Maria, 11 Pictura Villa, Henry-st., Windsor, Melbourne.—“River Yarra, Showing the Falls.”
- 4 Waite, J. C.—“Three Generations,” by J. C. Waite, S.B.A.
- 59 Wallis, W. S.—“David’s First Victory,” by J. W. Strutt.
- 204 Walter, J. S.—“Returning from Prayer,” by F. Goodall.
- 14, 15, 19, 24 Wanliss, T. D., Corinella, Tennyson-st., St. Kilda, Melbourne.—“The Penitent’s Appeal,” by A. Echtlér, Paris, etc.
- 58 Ward-Cole, Mrs.—A family portrait—“Ed. Ward, Esq.,” by Sir Josh. Reynolds.
- 234a Wilson, C. A.—“Virgin and Child” (artist unknown).
- 74 Yuile, Mrs.—“A Winter’s Morning off the Mumbles Head, Swansea Bay,” by E. S. Walters, R.A.
- 119 Yuile, D.—“A Sleeping Pool Above the Mill,” by A. K. Brown, R.S.W.

Water-Colours.

Hines, J. W.—Sixteen water-colour drawings, by various artists (for full description, see the Special Art Catalogue).

Parsons, Mrs. G.—Four water-colour drawings (for full description see the Special Art Catalogue).

Class 2.—Various Paintings, Drawings, &c.

- 62 Arnall & Jackson, 44 Collins-st. West, Melbourne.—Illuminated addresses.
- 64 Bennett, C. S., 18 Collins-st. E., Melbourne.—“Near Dandenong,” “At Blackwood,” “The Old Home.”
- 65 Bull, Blanche, 13 Carlton-st., Carlton, Melbourne.—“Bouquet of Flowers.” “Rose and Ferns,” “Ecce Homo.”
- 66 Boyd, A., Captain Boyd, “Glenfern,” East St. Kilda, Melbourne.—“Fishing Boats off Brighton.”
- 67 Brown, Elizabeth, Bond-st., Geelong.—Three crayons.
- 68 Campbell, M., 18 Collins-st., Melbourne.—“Rocks at Moorabbin,” “Half-Moon Bay.”
- 69 Cave, N., Derrik-st., Kew, Melbourne.—Water-colour.
- 71 Carter, Rosa, 17 Hotham-st., E. Melbourne.—Crayon enlargement of photograph.
- 72 Churchill, T., Hamilton, Victoria.—Pictures worked in silk in the years 1777, 1778, 1800.
- 73 Chapman, Eloiso A., Bay-st., Brighton.—Hand-painted terra-cotta vase, hand-painted table.
- 74 Clarke, Annie H., 203 Chapel-st., Windsor.—Painting on china and porcelain.
- 75 Daniel, M. J., 8 Wellington-parade, South Jolimont, Melbourne.—“The Wandering Minstrel,” pencil drawing, from painting by W. M. Ridley.
- 76 Dickson, T., 5 Jolimont-square, East Melbourne.—“Clerical Reel of Bogie.”
- 77 Dickson, Isabel, The Square, Jolimont, East Melbourne.—Indian ink sketches from Dickens, on inlaid card table; “The Hugenots.”
- 78 Doolan, Kate, Robe-st., St. Kilda.—“Sheep and Collies,” Indian ink; landscape, chalk.
- 79 Fearn, F. M., Myers-st., Sandhurst, Victoria.—Water-colour design for illuminated address.
- 80 Fletcher, A., 87 Collins-st., Melbourne.—Water-colour drawings.
- 81 Floyd, Mrs. A. E., Maidstone, via Footscray, Melbourne.—Group of fruit, water-colour; “The Crucifixion,” water-colour.
- 82 Geory, Emma, 4 Belgravia-terrace, King-st., Melbourne.—Figure, crayon.
- 83 Gerson, Caroline V., 8 Caroline-st., South Yarra.—Crayon drawings.
- 85 Gregory, C. D., 117 Nelson-road, South Melbourne.—Two portfolios of intercolonial steamships, sketches.
- 86 Hamel & Ferguson, 85 Queen-st., Melbourne.—Illuminated addresses.
- 87 Hammond, Camilla F., Gleneira, 5 Swan-st., Richmond, Melbourne.—Group of Victorian native flowers.
- 88 Jennings, Alice, 5 Raglan-terrace, Robe-st., St. Kilda.—China painted cups and saucers, terra-cotta plaque.

88a Messrs. Johnstone, O’Shannessy and Co., by official appointment to the Centennial International Exhibition.

MESSRS. JOHNSTONE, O’SHANNESY AND CO. beg to inform exhibitors and the public that all orders for photos of exhibits, in the buildings or grounds, will be received at the office of their pavilion, west end of French gallery, north side of organ, where a large collection of art work and photography is arranged. They would also solicit a visit to their Fine Art and Portrait Establishment, 55 and 57 Collins-st. East, which may justly claim to be one of the Sights of Melbourne.

N.B.—A Printed List of Prices, as arranged by the Commissioners, can be had on application at their pavilion in the Exhibition.

PLEASE READ ROUND THIS PAGE.

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MELBOURNE CENTENNIAL INTERNATIONAL EXHIBITION.

Painting, Property and General Repairs, Odd Jobs &c.

- 89 Jolley, R., & Co., 18 Little Collins-st., Melbourne.—Australian wild flowers, hand-painted from nature, by Miss Hammond.
- 90 Mason, C., Octavia-st., St. Kilda.—Black and white drawing—“Bridges on the Yarra.”
- 91 Mathews, A., 185 Punt-road, Richmond, Melbourne.—“Spring,” water-colour; “Autumn,” water-colour.
- 92 Matthews, J. J., High-st., Malvern, Melbourne.—Satin cushion, with hand-painted lilies in oil.
- 93 MacCormack, Annie, 29 Eville-place, Albert Park.—Two pictures in water-colours and black and white.
- 94 M'Millan, C. M., Rakia, Burnett-st., St. Kilda.—Etchings.
- 95 Murray, A. S., Dunrobin, Casterton, Victoria.—Lines of 30 water drawings—Scenery on the Murray, obtained during a rowing expedition.
- 96 Parsons G., Charnwood-road, St. Kilda, Victoria.—“Change in the Wind, Christmas Hills, Victoria”; “On the Shores of Hobson's Bay”; etc.
- 97 Pemry, A., 114 Rokeby-st., Collingwood, Melb.—Pen and ink sketches of Victorian military forces during five years' service.
- 98 Peppercorn, J. P., Balaclava-road, Caulfield, near Melbourne.—Landscape, Swiss crayon.
- 99 Peck, H. F., Myrtle Cottage, Sale.—Flowers and fruit.
- 100 Peters, Helen A., Elizabeth-st., Newtown, Geelong.—Group, chalk; freehand ornament, chalk.
- 101 Picturesque Atlas Publishing Co., Wynyard-square, Sydney.—Collection of black and white crayon and charcoal drawings.
- 102 Quelch, F., P. B. Evans, 46 Russell-st., Melbourne.—Specimens of illuminating.
- 103 Rae, Isabel, late of Melbourne.—Figure subject.
- 104 Reilly, H., 100 High-st. E., Windsor, Melbourne.—“Valley of the Red Rock Gorge, Balmaineau, South Queensland.”
- 105 Ridge, Ellen M., Wanga, Brighton-road, St. Kilda.—Painting on china.
- 107 Roper, J. T., Rose-st., California Hill, Sandhurst.—“Pavilion of the Star of Hope.”
- 108 Robinson, Mrs. J.—“Moses and the Ten Commandments,” drawing.
- 109 Robertson, J., Walpole-st., Kew, Melbourne.—“Mossman's Bay, Sydney, Midday”; “Mossman's Bay, Sydney—Evening”; etc.
- 110 Robertson, A., Corringle, Barker's-road, Hawthorn, Melbourne.—“On the Yarra, near Hawthorn”; “View of the Yarra—Evening.”
- 112 Rowe, J. F., & Co., 3 Zubulon-terrace, Drummond-st., Carlton, Melbourne.—Illustrated playing cards, painting on porcelain, glass, etc.
- 113 Sasse, Harriet M. B., Myers-st., Geelong.—Variety of roses; “Jesus, Mary, and St. John.”
- 114 Samuell, A. M., 24 Clara-st., South Yarra.—Coloured drawing of the “Rocking Stone, Helena Valley, West Australia.”
- 115 Seidel, M. G., 57 Wellington-st., Collingwood, Melbourne.—Glass gilding, dissolving views.
- 116 Silvester, S., General Post Office, Melbourne.—Water-colour illumination on screen.
- 117 Sinclair, A., Bridges' Art Gallery, Bourke-st. E., Melbourne.—Series of six colonial scenes.
- 118 Smith, B., 8 Imperial-chambers, Bank-place, Melbourne.—Series of five drawings illustrating “Macbeth,” etc.
- 119 Stevenson, T., Stirling House, Dudley-st. West, Melbourne.—Specimens of armorial paintings on panel, heraldic panel.
- 121 Stark, Mary H., Walworth, Leveson-st., Hotham, Melbourne.—Painting on opal, crystaline painting.
- 122 Tame, Emma A., Heidelberg-road, Alphington, near Melbourne.—Water-colour landscapes.
- 123 Tindall, Eleanor V., 73 Greville-st., Prahran.—Revolving stand of eight panels—Australian wild flowers, hand-painting in water-colours.
- 125 Tuckes, Letitia I., Mitchell-st., Sandhurst.—Australian wild flowers, chalk drawings.
- 126 Upham, H. G., 54 Peel-st., Ballarat East.—Plate-glass mirror, embossed; gilded writing on glass.
- 127 Waller, Emily, Creswick House, 92 George-st., East Melbourne.—“Treasures of the Deep.”
- 129 Wesslink, Margaret, Hermanville, 3 Carroll-st., North Melbourne.—View on the Firth of Forth, Scotland.
- 130 Wilson, C. V., 38 Dalgety-st., St. Kilda, Melbourne.—Indian ink drawing.
- 131 Woodhouse, F., jun., 69½ Bourke-st. W., Melbourne.—“Past and Present in Victoria—Travelling by Cobb's Coach, 1858”; do. do. 1888.
- 132 Zettings, A., Sydney-road, Brunswick, Melbourne.—Inlaid panel, representing picture.

Class 3.—Sculpture and Die Sinking.

- 133 Altmann, E. A., 80 Elizabeth-st., Melbourne.—Medals, medallions, engraving on copper, steel, etc.; models in plaster for medal designs.
- 134 Anderson, W. J., 57 William-st., Melbourne.—Bar relieves.
- 135 Arnall and Jackson, 44 Collins-st. West, Melbourne.—Die sinking.
- 136 Atyeo, Lytton House, Lytton-st., Carlton, Melbourne.—Memorial tablet, in Sicilian marble, slate back.
- 137 Christie, J. P., Yarra-st., Echuca, Victoria.—Emu eggs, in nine designs; carving on ostrich egg.
- 138 Couch, G., Kooyong-road, Caulfield.—Model of a horse.
- 139 Commars, Lydiard-st., Ballarat, Victoria.—Sculpture in the round, Italian marble.
- 140 Dedman, C., Chambers and Clutton, Lonsdale-st. East, Melbourne.—Marble clock.
- 141 Hansen and Co., Monumental Works, Swanston-st., Melbourne.—Grey granite monument, draped; marble tombstone.
- 142 Kretzschmar, R., 95 Collins-st., Melbourne.—Statue of “Moses”; group—“Apollo and Mercury.”
- 143 Lynch, J., Maryville, Rathdown-st., North Carlton, Melbourne.—Panel in white marble, with lilies carved on face; do. do., ferns carved on face.
- 144 Pacini, F., 14 Lewisham-road, Prahran.—Marble and alabaster statuary and vases, in ancient style.
- 145 Phillips, W., 261 Swanston-st., Melbourne.—Marble sculptured figure—“Sleeping Child”; Marble figure—“Sleeping Infant.”
- 146 Peppercorn, J. P., Balaclava-road, Caulfield, near Melbourne.—Medallions.
- 147 Rogers, W. F., Wood Carver, Rathdown-st., Carlton, Melbourne.—Bust—“Rev. Charles Clark,” in plaster of Paris.

Heavy Domestic and Cleaning Work, Carpentry.

UNIVERSAL HELP COMPANY,

VICTORIAN WORKS OF ART.

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| <p>148 Rosenwax, J. W., 1 Warwick-terrace, Drummond-st., Carlton, Melbourne.—Marble ink-stand, white and coloured; marble ruler.</p> <p>149 Salyer, A., 15 Flinders-lane, Melbourne.—Bust—"Sir H. B. Loch" (life size), medallion head of an aboriginal (life size).</p> <p>150 Sands and M'Dougall, 46 Collins-st., Melbourne.—Die sinking.</p> <p>151 Sharp, T. C., 7 Magdala-place, Grey-st., East Melbourne.—Collection of coins.</p> <p>152 Stratton, D., Lyndhurst-st., Richmond, Melbourne.—Aboriginal hunting scene, sculptured in relief.</p> <p>153 Stark, Mary H., Walworth, Leveson-st., Hotham, Melbourne.—Parian marble.</p> <p>155 Troedel, C., and Co., 43 Collins-st. East, Melbourne.—Specimens of die sinking and embossing.</p> <p>156 Whitehead, E. and Co., 58 Collins-st. E., Melbourne.—Specimens of die sinking and engraving.</p> <p>(A) Summers, J.—"Sir John O'Shanessy," by the late C. Summers.</p> <p>(B) Strachan, H. M.—"Sir Charles Sladen," by the late C. Summers.</p> <p>C) Ward-Cole, Miss.—Bronze medallion, by Woolner, "Captain Ward-Cole and C. J. Latrobe, C.B."</p> <p>(D) Cooper, E.—Louis XIV. cabinet.</p> <p>(E) Anderson, G.—Case of lapidary work.</p> <p>(F) M'Lean, Angus.—"Sir Richard Molesworth," plaster bust, by the artist.</p> <p>(G) Catani, Signor.—Pair of decorated doors.</p> <p>(H) Ward-Cole, Miss A.—Case of three medallions, by Woolner, "Commander Ward-Cole," "Mrs. Ward-Cole," and F. "M'Crae Ward-Cole." [Round the statue of "Victory".]</p> <p>Exhibition Trustees, The.—"Campsape," Sévres vase.</p> <p>Commons, M.—"Prayer," "Catching Butterflies."</p> | <p>167 Fehon, W. M., Huntington-road, Malvern, Melbourne.—Plan showing extension of Melbourne to the west.</p> <p>168 Gibbs, H. B., 43 Elizabeth-st., Melbourne.—Drawings of residence, hotel, hospital, town hall, and church.</p> <p>169 Gribble, W. E., James & Piper, architects, Lydiard-st., Ballarat.—Architectural drawing on canvas, framed.</p> <p>170 Hammond, Camilla F., Gleneira, 5 Swan-st., Richmond, Melb.—Diagrams illustrating practical use of perspective by students English art schools.</p> <p>171 Hannan, G. T., 125 Raglan-st., South Melbourne.—Model of 5-roomed villa residence, model of 4-roomed house and bathroom.</p> <p>172 Harding, R., Geelong-road, Footscray.—Elevation of hydro-pneumatic disappearing carriages. The same in loading position.</p> <p>173 Huddart Parker & Co., 128 Collins-st., Melbourne.—Models of steamships, and photographs of same.</p> <p>174 Johnson, G. R., 83 Little Collins-st. E., Melbourne.—Designs for public buildings.</p> <p>175 Johnson, A. J., Woodford, Dandenong-road, Malvern.—Drawing of a mansion suitable for a hot climate.</p> <p>176 Kilburn, E. G., Ellerker and Kilburn, 14 Market-buildings, Collins-st., Melbourne.—"Palace Hotel Elevation, Sydney," designs, etc.</p> <p>177 Lockwood, C. Boothroyd, Sydney-road, North Brunswick.—Architectural drawing—"Adelaide University."</p> <p>178 M'Donnell, S., 3 Gordon-st., Elsternwick, Melbourne.—Model of River Yarra, showing Harbour Trust improvements; models of nuggets.</p> <p>179 M'Leod, Annie L., 23 Eville-place, Albert Park, Melbourne.—Card basket, drawn, embossed, and raised.</p> <p>180 Murray, H. R., 91 Cecil-st., S. Melbourne.—Models in naval architecture—yachts, steam launches, and torpedo boats.</p> <p>181 Oldacre, R. S., 48 Queen-st., Melbourne.—Designs—"New Cathedral, Ballarat," and other views.</p> <p>182 Peebles, N. G., 3 Moorhouse-st., Richmond, Melbourne.—Drawings in Indian ink—"Jacobian Mansion."</p> <p>183 Pentelow, E., May Grove South Yarra.—Perspective view—"St. Andrew's Church, N.Z.;" perspective view—"Conduit Lodge, Hampstead."</p> <p>184 Pitt, W., 22 Collins-st. West, Melbourne.—Drawings—"Princess Theatre," "Federal Coffee Palace," "St. Kilda Town Hall," etc.</p> <p>185 Perry, J., 167 Russell-st., Melbourne.—Model of the Falls of Niagara.</p> <p>186 Rampart, A. A., 38 Vincent-place South, Albert Park, Melbourne.—Drawing—"Court of Thibau III., Count of Chaupagne, France."</p> <p>187 Royal Commission for Promoting Technological Instruction, Swanston-st., Melb.—Works of students in schools of art.</p> <p>188 Sommer, J. C., 181 Spring-st., Melbourne.—Specimen patterns of interior house decorations of ceilings, walls, and floors, on large screens.</p> <p>189 Stewart, D. R., Phoenix-chambers, Market-st., Melbourne.—Architectural elevations and designs.</p> <p>190 Victoria Coffee Palace Company, 79 Collins-st. East, Melbourne.—Photograph and drawing of the premises.</p> <p>191 Wight & Lucas, Market-st., Melbourne.—Architectural drawings.</p> <p>192 White, W., Williamstown.—Models—steam and sailing ships, constructed not to roll. Sailing schooner, yachts, etc.</p> |
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Goods and Furniture Removed, Packed, and Stored.

- Class 5.—Engravings and Lithographs.**
- 194 Bennett, C. S., 18 Collins-st. East, Melbourne.—Wood engravings, descriptive of Australian life, and landscape.
- 195 Bruce, R., Phoenix-chambers, Market-st., Melbourne.—Frames, with wood engravings, portraits, etc.
- 196 Cant, G. T., Freeman-st., North Carlton, Melbourne.—Engraving, chasing, embossing on copper for jewellery, etc.
- 197 Calvert, S., 85 Little Collins-st. East, Melbourne.—Drawings and photos. on boxwood, engraved blocks, and proofs off engraved blocks.
- 198 Cooper, E., Grace Park, Hawthorn, Melb.—Louis Quartoze cabinet—"Engravings of Celebrated Men, 1740," etc.
- 199 Davies, H. J., 97 Webb-st., Fitzroy, Melbourne.—Specimen of engraving.
- 200 Hall, F. T., Public Library, Melbourne.—Ivory-mounted polished paper walking stick
- 201 Jacobi, Nicholson-chambers, Swanston-st.—Lithographic and fancy ornamented illuminations.
- 202 M'Carron, Bird and Co., 112 Collins-st. W., Melbourne.—Printed engravings, lithographs.
- 203 Melville, M. A., R. Jenny, 88 Swanston-st., Melbourne.—Wood engravings, and proofs taken from same.
- 204 Melbourne Photo-Engraving Co., 55 Elizabeth-st., Melbourne.—Engraved blocks and proofs, line engraving, photo engravings.
- 205 M'Kaige, E. J., Royston, Donald-st., Prahran.—Proof of wood engraving.
- 206 Picturesque Atlas Publishing Co., Wynyard-square, Sydney.—Engravings on wood and wax.
- 207 Robinson, Mrs. J., Spottiswoode, near Melbourne.—Steel engraving—"Her Majesty's First Visit to her Soldiers on their Return from Crimea."
- 208 Rudolph, Jenny, 83 Swanston-st., Melbourne.—Frame, with specimens of wood engravings.
- 209 Samuell, Lizzie J., 24A Clara-st., South Yarra.—Proofs of wood engravings, with blocks.
- 210 Sands and M'Dougall Ltd., 46 Collins-st. W., Melbourne.—Engravings and lithographs.
- 211 Stevens, W. R., 21 Elizabeth-st., Melbourne.—Photogravures and engravings, plain and coloured.
- 212 Troedel and Co., 48 Collins-st. East, Melbourne.—Lithographic and block chromo printing; lithographed labels, show cards and posters.
- 213 Whitehead, E., and Co., 53 Collins-st. East, Melbourne.—Copperplate engraving printing from copper, &c.

THE PICTURES IN VICTORIAN LADIES' COURT.

[NOTE.—All Works of Art sent in by Victorian Exhibitors were subjected before hanging to a Selection Committee appointed by the Commissioners, and consisting of members of the Fine Arts Committee, aided by experts. By this Selection Committee 252 works were rejected, but no work was rejected from exhibition except by this Committee.

A considerable portion of the Victorian work was placed in the Victorian Artists' Gallery, the space having been assigned by the Commissioners to that body. Of the remainder, works by ladies were sent to the Ladies' Court. Other accepted works were sent to the general Victorian Court, to be hung there if room could be found for them. The Committee of the Victorian Court afterwards found it necessary to group both the latter classes of works together, and to add other pictures sent in direct to the Ladies' Court with which the Fine Arts Committee were not concerned. These will be all found hung on the wall-space of the Ladies' Court at the North end of the Annexes, and they are specified in detail in the Special Art Catalogue.]

VICTORIAN ARTISTS' GALLERY.

The Council of the Society of Victorian Artists has contributed a valuable collection of oil paintings and water-colours, with pieces of sculpture, to which a gallery has been assigned, and which are described at length in the Special Art Catalogue.

ADDENDA.—BRITISH COURT.

CLASS 9.

- 1299 "European Mail," 161 Queen Victoria-st., London, E.C.—Publications.

CLASS 10.

- 1280 Gordon & Gotch, St. Bride-st., London, E.C.—Writing paper, cards, envelopes, &c.

CLASS 12.

- 1281 Gwynn, A. E. W., London, E.C.—Photographs of steam dredgers and excavators.
- 1282 Tagliaferrio, A. G., Hart-st., London, W.C.—Photographs.

CLASS 13.

- 1283 Rieviere & Hawkes, London.—Wind instruments.
- 1284 Russell, G., London.—Transposing pianos.
- 1285 Tromba, I., London.—Reeds for wind instruments.

CLASS 24.

- 1286 Irene & Co., London.—Perfumery.

CLASS 26.

- 1287 Glass Decoration Co. Ltd., Hatton Garden, London.—Ornamental glass for decoration purposes.

CLASS 27.

- 1288 Woolliscroft, G., & Sons, Hanley.—Encaustic, hydraulic, flooring, hearth, and artistic wall tiles. Agents: Grondona and Company Limited, 28 King-st., Melbourne.

CLASS 36.

- 1289 Green & Cadbury, Birmingham.—Buttons.

CLASS 42.

- 1240 Gerrard, E., London, S.E.—Stuffed animals.

CLASS 44.

- 1241 Mallen & Co., Dublin.—Butter colouring, sheep dip.
- 1242 Patent Liquid Fireproof Cyanite Co. Ltd., London.—Fireproof paint.

CLASS 46.

- 1243 Dales, J., 287 Crystal Palace-road, London, S.E.—Dressings for preserving, waterproofing, and softening boots, harness, and leather.

CLASS 48.

- 1244 Hardt, H. B., 30 Lime-st., London, E.C.—Aerating apparatus and hand ice machine.

CLASS 51.

- 1245 Horne, W. C., 6 Dowgate-Hill, London, E.C.—Martin's gas engine and other machines.

CLASS 55.

- 1246 Sommerfield, H., London, E.C.—FloraN sewing machine.
- 1247 Hardt, H. B., 30 Lime-st., London, E.C.—Automatic knitting machine.

CLASS 57.

- 1248 Gordon & Gotch, St. Bride-st., London, E.C.—Combination brass rules for use of printers.
- 1249 Horne, W. C., 6 Dowgate-hill, London, E.C.—Hart's signature press; Martini folding machine for folding stationery, books, &c.

CLASS 64.

- 1250 Balch, W., London, S.E.—Life-saving apparatus.

CLASS 69.

- 1251 Dickson Concentrated Beef Tea Co., 39 Lombard-st., London.—Beef tea.

CLASS 71.

- 1252 Austey, Chave & Co., Uxbridge, England.—Walton's annatto.
- 1253 Sprott, J., and Son, Musselburgh, Scotland.—Confectionery.

CLASS 72.

- 1254 Cosens, T. W., & Co., 16 Water-lane, London.—Sherry.
- 1255 Hope & King, 140 West George-st., Glasgow.—"Braemar" whisky.
- 1256 Silva and Cosens, 14 Water-lane, London.—Port wine.
- 1257 Smith, J., Brewer, Todcaster.—Beer.

CLASS 73.

- 1258 London and General Water Purifying Company Ltd., 157 Strand, London.—Water filters.

CLASS 83.

- 1259 Sidaway, J., Furnace Forge, Halesowen, Worcestershire.—Spades, shovels, etc.
- 1260 Anti-Attrition Metal Co. Ltd., Southwark, London, S.E.—Patent metal.

ADDENDUM—CANADIAN COURT.

CLASS 55.—APPARATUS AND PROCESSES FOR SEWING AND MAKING UP CLOTHING.

23 The Williams Company, Montreal.—Sewing machines.

ADDENDA.—NEW ZEALAND COURT.

CLASS 9.

58a Post and Telegraph Department, Wellington.—Post and telegraph maps of the North and Middle Islands.

CLASS 12.

34a Bond, Rebecca, Queenstown.—Photograph of a large hotel.

37a Leichardt, Julia, Queenstown.—Photograph of a large hotel.

40a M'Bride, Jane T., Queenstown.—Photograph of a large hotel and buildings.

CLASS 16.

63a Garlick & Cramwell, Auckland.—Wardrobe made of New Zealand woods.

CLASS 18.—CARPETS, TAPESTRY, & OTHER STUFFS FOR FURNITURE.

73a Winks & Hall, Auckland.—Fancy inlaid cabinet-ware.

86a M'Dermott, Miss A. M., Dunedin.—Fancy work tablecover.

CLASS 34.

107a Kelly, Lizzie, Rotorua.—Seven specimens of lace.

CLASS 41.

126a Forsyth, J., Queenstown.—Two pieces of timber suitable for furniture purposes.

126b Forsyth, J., Queenstown.—Bark from red birch also bark from mountain trees.

CLASS 44.

165a Smith, J. M., Rangitika.—Samples of patent paint applied to iron.

CLASS 46.

112a Smith, J. M., Rangitika.—Patent waterproof materials.

CLASS 73.

357a Paterson, R. L., Dunedin.—Asthma cure.

CLASS 74.

228 Smith, J. M., Rangitika.—Two patent coolers and ventilators.

CLASS 83.

386a Champion Copper Mining Co., Nelson.—Copper and ores.

392b Horner, W. H., Queenstown.—Scheelite from a lode, Rees River.

392c Haye, W. H., Auckland.—Specimens of sulphur, etc., from the Rotorua and Rotomahana Hot Lake district.

398b Jacobsen Bros., Wellington.—Marble found in the Nelson district.

398c Johnston's United Mining Co., Nelson.—Samples of quartz, galena, copper, and zinc blend, also gold specimens.

396a M'Nell, J., Queenstown.—Block of freestone from Bob's Quarry, Lake Wakatipu.

404a Street, W. P.—Cement stones in spherical boulders from Moeraki.

ADDENDA.—UNITED STATES COURT.

CLASS 6.—EDUCATION OF CHILDREN, PRIMARY INSTRUCTION, INSTRUCTION OF ADULTS.

286 State of Michigan Educational System.—Educational system.

CLASS 8.—ORGANISATION, METHODS, AND APPLIANCES FOR SUPERIOR INSTRUCTION.

287 Educational System United States Naval Academy, Annapolis, Maryland.—Educational system.

CLASS 9.

288 The Intestate Publishing Co., Chicago.—Educational publications.

CLASS 10.

289 Governor Fountain Pen Co., Brooklyn, New York.—Style pens, etc.

290 Kelly, R. A., San Francisco, Cal.—Paints and oils.

291 Moor, B., & Co., Brooklyn, New York.—Kalsomine, etc. Agent: J. C. Oakman, Sydney and New York.

292 Kosmain Manufacturing Co., New York.—Safety ink.

293 Wadsworth, Howland & Co., Cincinnati.—Coach colours, etc. Agent: J. C. Oakman, Sydney and New York.

CLASS 11.

294 The Portable Copy Press and Stationery Co., Michigan.—Cylindrical and portable letter copying press, etc., for office.

CLASS 16.

295 Indianapolis Cabinet Co., Indiana.—Desks. Agent: J. C. Oakman, Sydney and New York.

CLASS 17.

296 Wemple, J. C., New York.—Empire shading goods, fixtures, and painted goods. Agent: J. C. Oakman, Sydney and New York.

CLASS 18.—CARPETS, TAPESTRY, AND OTHER STUFFS FOR FURNITURE.

297 Atha & Hughes, New York.—Ducks, oilcloths, and stair cloths.

CLASS 20.—CUTLERY.

298 Brongher, Fauk & Co., Harrisburg, Penn.—Patent skinning knives.

CLASS 23.

299 Cheshire Watch Co., Cheshire, Conn.—Watches. Agent: J. C. Oakman, Sydney and New York.

CLASS 25.

300 Auganes, H., Chicago, Ill.—Carved box.

301 Pacific Splint Basket Co., San Francisco, Cal.—Baskets.

CLASS 27.—POTTERY.

302 Clark, N., & Sons, San Francisco, Cal.—Flower pots.

CLASS 29.—THREAD, AND FABRICS OF FLAX, HEMP, JUTE, &c.

303 Neville & Co., San Francisco, Cal.—Flour-sacks.

CLASS 32.—SILK AND SILK FABRICS.

304 California State Board of Silk Culture, San Francisco, Cal.—Exhibit of the silk industry.

CLASS 37.—JEWELLERY AND PRECIOUS STONES.

305 Bourke, R. A., New York.—Rolled gold jewellery.

CLASS 39.

306 Toledo Cot & Wringer Co., Toledo, Ohio.—Folding chairs, cots and beds. Agent: J. C. Oakman, Sydney and New York.

307 Mercantile Manufacturing Co., Cleveland, Ohio.—Adjustable chains.

CLASS 40.

307a Dowde, D. L., New York.—Home gymnasium.

CLASS 41.—PRODUCTS OF THE CULTIVATION OF FORESTS AND OF THE TRADES APPERTAINING THERETO.

308 Moore, J. J., & Co., San Francisco, Cal.—Wooden doors.

CLASS 43.—AGRICULTURAL PRODUCTS NOT USED FOR FOOD.

309 Beall, C. H., Bethany West, Va.—Wool.

310 Imjers Bros. & Co., Richmond, Va.—Manufactured tobacco and leaf tobacco.

CLASS 44.

311 Everding, J., & Co., San Francisco, Cal.—Granulated soap and laundry starch.

312 Smith, F. M., San Francisco, Cal.—Borax.

313 Fryer, D. T., Oroville, Cal.—Patent medicines.

314 Woodbury Oil Co., San Francisco, Cal.—Engine and machine oil.

CLASS 46.—LEATHER AND SKINS.

315 Bloom, S., San Francisco, Cal.—Leather and skins.

CLASS 46.

316 Cook, A. O., & Son, San Francisco, Cal.—Leather belting.

CLASS 48.

317 The California Perforating Screen Co., San Francisco, Cal.—Exhibit.

**CLASS 51.—MACHINES AND APPARATUS IN
GENERAL.**

318 The Ball Engine Co., Erie, Penn.—High-speed automatic cut-off engines.

**CLASS 57.—APPARATUS AND PROCESSES
USED IN PAPER-MAKING, DYEING, AND
PRINTING.**

319 The World Typewriter Co., Boston.—Small portable typewriter, suited for mercantile and scholastic work.

CLASS 58.

320 Jewett, J. C., Buffalo, New York.—Refrigerators.

CLASS 59.

321 Strieby, H. M., & Co., Newark, New York.—Carriage forgings. Agent: J. C. Oakman, Sydney and New York.

CLASS 60.—HARNESS AND SADDLERY.

322 De Camp, Levoy & Co., Cincinnati.—Harness and saddlery.

323 Wilson, J. A., Erie, Penn.—Leather horse-nets. Agent: J. C. Oakman, Sydney & New York.

324 Sargent & Co., Newark, New York.—Harness mountings. Agent: J. C. Oakman, Sydney and New York.

CLASS 66.

325 California Consolidated Food Co., San Francisco, Cal.—Assorted soups and potatoes.

326 Mau, Sadler & Co., San Francisco, Cal.—Cereals.

CLASS 69.

326 Mau, Sadler & Co., San Francisco, Cal.—Canned meats.

327 Armour Packing Co.—Kansas City—Canned meats.

CLASS 73.

328 Pacific Electric Co., San Francisco, Cal.—Galvanic belts and trusses.

329 Clark, N., & Sons, San Francisco, Cal.—Sewer pipes.

CLASS 83.

330 The California Perforating Screen Co., San Francisco, Cal.—Quartz-mill screens.

ADDENDA.—VICTORIAN COURT.

CLASS 7.

1430 Roman Catholic Schools.—Maps, exercise books, examination papers, drawing, kindergarten, and general instruction to children.

CLASS 48.

1431 Henderson, T., & Co., Agricultural Implement and Machine Makers, Elizabeth-st. North, Melb.—Agricultural implements and machinery.

CLASS 72.

1432 Castlemaine Brewery Co. Ltd., South Melbourne.—Bulk beers and bottled ale and porter trophy.

1433 Ferry, G. R., Terra-cotta Works, Brunswick. Study of head in terra-cotta, statuette of Tom Moore, statues of gold, wool, wheat, and wine.

